



Analysis Report

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

Sample Description: SL-122-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-122-SA5C-SB-4.0-5.0

LLI Sample # SW 6133888
 LLI Group # 1220069
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 11:45

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

122-4 SDG#: DE010-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	5.95	0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.148	0.0542	0.108	2
06139	Nickel	7440-02-0	12.8	0.108	0.434	2
06141	Selenium	7782-49-2	0.0523 J	0.0434	0.434	2
06142	Silver	7440-22-4	0.0550 J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.292	0.0325	0.108	2
06148	Vanadium	7440-62-2	43.0	0.0239	0.108	2
06149	Zinc	7440-66-6	39.5	0.607	3.25	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.110	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	8.1	0.88	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.2 J	10	33.2	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.34 J	0.22	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	457	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	9.22	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	9.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-122-SA5C-SB-4.5.

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

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

Sample Description: SL-122-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-122-SA5C-SB-4.0-5.0

LLI Sample # SW 6133888
LLI Group # 1220069
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122-4 SDG#: DE010-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 10:23	Ryan V Nolt	0.83
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103121AA	11/08/2010 13:17	Jason M Long	20.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031122874	11/06/2010 18:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031122874	11/06/2010 18:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031122874	11/06/2010 18:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031122874	11/06/2010 18:03	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10312SLG026	11/18/2010 02:01	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 15:00	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLH026	11/08/2010 23:00	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 17:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103135708001	11/11/2010 05:27	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010 05:27	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103135708001	11/09/2010 22:39	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103131026002D	11/13/2010 17:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103131026002C	11/13/2010 17:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103131026002B	11/13/2010 17:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103131026002A	11/13/2010 17:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103135711003	11/11/2010 10:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103135708001	11/09/2010 12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103131026002	11/09/2010 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103135711003	11/09/2010 13:44	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10319319201B	11/20/2010 05:49	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201A	11/21/2010 15:00	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 10:54	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10319319201B	11/15/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201A	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10312182103A	11/08/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10312039401A	11/08/2010 13:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

Sample Description: SL-122-SA5C-SB-9.0-10.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-122-SA5C-SB-9.0-10.0

LLI Sample # SW 6133889
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 11:50

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 Chantilly VA 20151

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

122-9 SDG#: DE010-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	530	1
04688	Benzidine	92-87-5	1,200	U 1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U 180	530	1
04688	Benzyl alcohol	100-51-6	180	U 180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180	1
04688	Carbazole	86-74-8	18	U 18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U 35	180	1
04688	4-Chloroaniline	106-47-8	71	U 71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180	1
04688	2-Chlorophenol	95-57-8	18	U 18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U 35	180	1
04688	Dibenzofuran	132-64-9	18	U 18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U 35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U 35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U 710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U 35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180	1
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	530	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	35	U 35	180	1
04688	4-Methylphenol	106-44-5	35	U 35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	35	U 35	180	1
04688	4-Nitroaniline	100-01-6	71	U 71	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	180	U 180	530	1
04688	Phenol	108-95-2	18	U 18	180	1

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

Sample Description: SL-122-SA5C-SB-9.0-10.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-122-SA5C-SB-9.0-10.0

LLI Sample # SW 6133889
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Project Name: SSFL Area IV Collocated Soil Sampling

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122-9 SDG#: DE010-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C						
			ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U 35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U 35	180	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U 0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U 0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U 0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U 0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U 0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U 0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U 0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U 6.4	19	1
10138	Chrysene	218-01-9	0.35	U 0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U 0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U 6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U 0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U 0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U 0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U 0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U 0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U 0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U 6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U 0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U 0.71	1.8	1
Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U 0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U 0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U 0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U 0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U 0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U 0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35	U 0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U 0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U 0.35	1.8	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals SW-846 6010B						
			mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,300	5.15	20.5	1

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

Sample Description: SL-122-SA5C-SB-9.0-10.0 Grab Soil
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122-9 SDG#: DE010-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	5.04 J	0.910	5.11	1
01650	Calcium	7440-70-2	2,500	6.27	20.5	1
01654	Iron	7439-89-6	15,800	4.82	20.5	1
01656	Lithium	7439-93-2	18.7	0.23	2.0	1
01657	Magnesium	7439-95-4	3,160	2.60	10.2	1
06958	Manganese	7439-96-5	263	0.0798	0.511	1
10145	Phosphorus	7723-14-0	288	0.573	10.2	1
01662	Potassium	7440-09-7	2,030	18.4	51.1	1
01667	Sodium	7440-23-5	151	38.2	102	1
07968	Strontium	7440-24-6	19.1	0.0634	0.511	1
06969	Tin	7440-31-5	1.92 J	1.02	10.2	1
06970	Titanium	7440-32-6	999	1.94	5.11	5
10146	Zirconium	7440-67-7	2.86 J	0.859	5.11	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.147 J	0.0632	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	8.27	0.0632	0.421	2
06126	Barium	7440-39-3	67.1	0.114	0.421	2
06127	Beryllium	7440-41-7	0.436	0.0169	0.105	2
06128	Cadmium	7440-43-9	0.0947 J	0.0379	0.105	2
06131	Chromium	7440-47-3	16.5	0.126	0.421	2
06132	Cobalt	7440-48-4	5.19	0.0211	0.105	2
06133	Copper	7440-50-8	7.92	0.0695	0.421	2
06135	Lead	7439-92-1	5.01	0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.387	0.0527	0.105	2
06139	Nickel	7440-02-0	10.4	0.105	0.421	2
06141	Selenium	7782-49-2	0.0421 U	0.0421	0.421	2
06142	Silver	7440-22-4	0.0160 J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.226	0.0316	0.105	2
06148	Vanadium	7440-62-2	42.7	0.0232	0.105	2
06149	Zinc	7440-66-6	52.2	0.590	3.16	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.101	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	4.5	0.85	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.6 U	9.6	31.9	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.27 J	0.21	1.1	1

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

Sample Description: SL-122-SA5C-SB-9.0-10.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-122-SA5C-SB-9.0-10.0

LLI Sample # SW 6133889
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 11:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

122-9 SDG#: DE010-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	438	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
00394	pH	n.a.	7.34	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	6.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10312SLG026	11/18/2010 02:27	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 15:32	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLH026	11/08/2010 23:00	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 17:51	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103135708001	11/09/2010 22:43	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103135708001	11/09/2010 22:43	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103135708001	11/09/2010 22:43	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103135708001	11/09/2010 22:43	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103135708001	11/09/2010 22:43	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103135708001	11/09/2010 22:43	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103135708001	11/09/2010 22:43	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103135708001	11/09/2010 22:43	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103135708001	11/09/2010 22:43	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103135708001	11/09/2010 22:43	John W Yanzuk II	1

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

Sample Description: SL-122-SA5C-SB-9.0-10.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-122-SA5C-SB-9.0-10.0

LLI Sample # SW 6133889
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 11:50

CDM Federal Programs Corp.

Submitted: 11/06/2010 10:20

14420 Albemarle Point Place

Reported: 11/29/2010 17:35

Suite 210

Chantilly VA 20151

122-9 SDG#: DE010-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103135708001	11/09/2010	22:43	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103135708001	11/09/2010	22:43	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010	05:30	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103135708001	11/09/2010	22:43	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103131026002D	11/13/2010	17:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103131026002A	11/13/2010	23:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103131026002C	11/13/2010	17:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103131026002B	11/13/2010	17:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103131026002A	11/13/2010	17:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103135711003	11/11/2010	10:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103135708001	11/09/2010	12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103131026002	11/09/2010	12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103135711003	11/09/2010	13:44	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10319319201B	11/20/2010	06:05	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201A	11/21/2010	15:24	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010	11:21	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10319319201B	11/15/2010	13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201A	11/19/2010	13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10312182103A	11/08/2010	13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10312039401A	11/08/2010	13:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010	21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010	05:21	William C Schwebel	1

Sample Description: SL-129-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-4.0-5.0

LLI Sample # SW 6133890
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-4 SDG#: DE010-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9 U	6.9	8.3	0.93
06192	Benzene	71-43-2	0.10 U	0.10	4.1	0.93
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1	0.93
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1	0.93
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1	0.93
06192	Bromoform	75-25-2	0.41 U	0.41	4.1	0.93
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1	0.93
06192	2-Butanone	78-93-3	1.3 U	1.3	8.3	0.93
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1	0.93
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1	0.93
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.1	0.93
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.1	0.93
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1	0.93
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1	0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1	0.93
06192	Chloroform	67-66-3	0.12 U	0.12	4.1	0.93
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1	0.93
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.1	0.93
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.1	0.93
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2	0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1	0.93
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1	0.93
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.1	0.93
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1	0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1	0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1	0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.1	0.93
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1	0.93
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1	0.93
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.1	0.93
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1	0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.1	0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1	0.93
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.1	0.93
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1	0.93
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.1	0.93
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1	0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.1	0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.1	0.93
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1	0.93
06192	Freon 113	76-13-1	0.11 U	0.11	4.1	0.93
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2	0.93
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.1	0.93
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3	0.93
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1	0.93
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1	0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1	0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.3	0.93
06192	Methylene Chloride	75-09-2	0.25 U	0.25	4.1	0.93
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1	0.93

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

Sample Description: SL-129-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA5C-SB-4.0-5.0

LLI Sample # SW 6133890
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:50

CDM Federal Programs Corp.

Submitted: 11/06/2010 10:20

14420 Albemarle Point Place

Reported: 11/29/2010 17:35

Suite 210

Chantilly VA 20151

129-4 SDG#: DE010-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.10 U	0.10	4.1	0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1	0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1	0.93
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1	0.93
06192	Toluene	108-88-3	0.17 J	0.08	4.1	0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.1	0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.1	0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1	0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1	0.93
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.1	0.93
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1	0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1	0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1	0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1	0.93
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1	0.93
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.1	0.93
06192	o-Xylene	95-47-6	0.18 U	0.18	4.1	0.93
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.4 U	5.4	16	24.04
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190	U 190	560	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U 190	560	1
04688	Benzyl alcohol	100-51-6	190	U 190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	190	1
04688	4-Chloroaniline	106-47-8	74	U 74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U 740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1

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

Sample Description: SL-129-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-4.0-5.0

LLI Sample # SW 6133890
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-4 SDG#: DE010-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	37	U 37	190	1
04688	4-Methylphenol	106-44-5	37	U 37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	37	U 37	190	1
04688	4-Nitroaniline	100-01-6	74	U 74	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	560	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U 0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U 0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U 0.74	1.9	1

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

Sample Description: SL-129-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-4.0-5.0

LLI Sample # SW 6133890
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-4 SDG#: DE010-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9	1
Perchlorate SW-846 6850 1/2007						
06557	Perchlorate in Soil LC/MS/MS	14797-73-0	2.3 U	2.3	5.6	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	33,100	5.35	21.3	1
07914	Boron	7440-42-8	12.0	0.947	5.32	1
01650	Calcium	7440-70-2	7,980	6.52	21.3	1
01654	Iron	7439-89-6	28,200	5.01	21.3	1
01656	Lithium	7439-93-2	27.7	0.23	2.1	1
01657	Magnesium	7439-95-4	6,200	2.70	10.6	1
06958	Manganese	7439-96-5	311	0.0830	0.532	1
10145	Phosphorus	7723-14-0	142	0.596	10.6	1
01662	Potassium	7440-09-7	2,750	19.2	53.2	1
01667	Sodium	7440-23-5	515	39.7	106	1
07968	Strontium	7440-24-6	39.2	0.0660	0.532	1
06969	Tin	7440-31-5	2.50 J	1.06	10.6	1
06970	Titanium	7440-32-6	1,420	2.02	5.32	5
10146	Zirconium	7440-67-7	6.22	0.894	5.32	1
SW-846 6020						
06124	Antimony	7440-36-0	0.334	0.0670	0.223	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.89	0.0670	0.447	2
06126	Barium	7440-39-3	172	0.121	0.447	2
06127	Beryllium	7440-41-7	1.05	0.0179	0.112	2
06128	Cadmium	7440-43-9	0.146	0.0402	0.112	2

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

Sample Description: SL-129-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-4.0-5.0

LLI Sample # SW 6133890
 LLI Group # 1220069
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-4 SDG#: DE010-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	35.5	0.134	0.447	2
06132	Cobalt	7440-48-4	9.81	0.0223	0.112	2
06133	Copper	7440-50-8	13.1	0.0737	0.447	2
06135	Lead	7439-92-1	11.1	0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.519	0.0559	0.112	2
06139	Nickel	7440-02-0	20.0	0.112	0.447	2
06141	Selenium	7782-49-2	0.107 J	0.0447	0.447	2
06142	Silver	7440-22-4	0.0988 J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.392	0.0335	0.112	2
06148	Vanadium	7440-62-2	65.5	0.0246	0.112	2
06149	Zinc	7440-66-6	65.9	0.626	3.35	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0184 J	0.0031	0.110	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	21.0	0.89	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.1 U	10.1	33.5	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.37 J	0.22	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	488	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.01	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	10.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-129-SA5C-SB-4.5.

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

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

Sample Description: SL-129-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-4.0-5.0

LLI Sample # SW 6133890
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-4 SDG#: DE010-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 08:08	Ryan V Nolt	0.93
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103121AA	11/08/2010 13:37	Jason M Long	24.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031122874	11/06/2010 18:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031122874	11/06/2010 18:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031122874	11/06/2010 18:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031122874	11/06/2010 18:07	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10312SLG026	11/18/2010 02:53	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 16:03	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLH026	11/08/2010 23:00	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
06557	Perchlorate in Soil LC/MS/MS	SW-846 6850 1/2007	1	103140018A	11/11/2010 20:29	Richard A Shober	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 18:09	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103140018A	11/11/2010 09:20	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010 05:41	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103135708001	11/09/2010 22:47	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103131026002A	11/13/2010 17:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103131026002A	11/13/2010 17:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103131026002D	11/13/2010 17:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103131026002A	11/13/2010 17:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103131026002A	11/13/2010 17:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103131026002A	11/13/2010 17:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103131026002A	11/13/2010 17:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103131026002A	11/13/2010 17:57	Choon Y Tian	2

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

Sample Description: SL-129-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-4.0-5.0

LLI Sample # SW 6133890
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-4 SDG#: DE010-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103131026002A	11/13/2010	17:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103131026002C	11/13/2010	17:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103131026002A	11/13/2010	17:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103131026002B	11/13/2010	17:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103131026002A	11/13/2010	17:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103131026002A	11/13/2010	17:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103131026002A	11/13/2010	17:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103131026002A	11/13/2010	17:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103135711003	11/11/2010	10:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103135708001	11/09/2010	12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103131026002	11/09/2010	12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103135711003	11/09/2010	13:44	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10319319201B	11/20/2010	06:50	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201A	11/21/2010	15:48	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010	11:34	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10319319201B	11/15/2010	13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201A	11/19/2010	13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10312182103A	11/08/2010	13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10312039401A	11/08/2010	13:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010	21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010	05:21	William C Schwebel	1

Sample Description: SL-129-SA5C-SB-9.0-10.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-9.0-10.0

LLI Sample # SW 6133891
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:55

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-9 SDG#: DE010-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	580	1
04688	Benzyl alcohol	100-51-6	190	U 190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	77	U 77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	77	U 77	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	580	1
04688	Phenol	108-95-2	19	U 19	190	1

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

Sample Description: SL-129-SA5C-SB-9.0-10.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-9.0-10.0

LLI Sample # SW 6133891
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:55

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-9 SDG#: DE010-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U 0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U 0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21	1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U 6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U 0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U 0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U 6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U 0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U 0.77	1.9	1
Pesticides/PCBs SW-846 8082			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U 1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U 1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U 1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U 0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58	U 0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60	U 0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58	U 0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38	U 0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U 0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38	U 0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U 0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U 0.38	2.0	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals SW-846 6010B			mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,300	5.79	23.0	1

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

Sample Description: SL-129-SA5C-SB-9.0-10.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-9.0-10.0

LLI Sample # SW 6133891
 LLI Group # 1220069
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:55

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-9 SDG#: DE010-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	11.7	1.02	5.75	1
01650	Calcium	7440-70-2	28,000	7.05	23.0	1
01654	Iron	7439-89-6	29,100	5.42	23.0	1
01656	Lithium	7439-93-2	28.9	0.25	2.3	1
01657	Magnesium	7439-95-4	6,320	2.92	11.5	1
06958	Manganese	7439-96-5	264	0.0898	0.575	1
10145	Phosphorus	7723-14-0	295	0.644	11.5	1
01662	Potassium	7440-09-7	2,810	20.7	57.5	1
01667	Sodium	7440-23-5	729	42.9	115	1
07968	Strontium	7440-24-6	77.8	0.0713	0.575	1
06969	Tin	7440-31-5	2.33 J	1.15	11.5	1
06970	Titanium	7440-32-6	1,580	2.19	5.75	5
10146	Zirconium	7440-67-7	6.58	0.967	5.75	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.265	0.0684	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	12.3	0.0684	0.456	2
06126	Barium	7440-39-3	149	0.123	0.456	2
06127	Beryllium	7440-41-7	1.02	0.0182	0.114	2
06128	Cadmium	7440-43-9	0.213	0.0410	0.114	2
06131	Chromium	7440-47-3	40.9	0.137	0.456	2
06132	Cobalt	7440-48-4	10.4	0.0228	0.114	2
06133	Copper	7440-50-8	17.9	0.0752	0.456	2
06135	Lead	7439-92-1	12.3	0.0118	0.228	2
06138	Molybdenum	7439-98-7	0.630	0.0570	0.114	2
06139	Nickel	7440-02-0	23.8	0.114	0.456	2
06141	Selenium	7782-49-2	0.0620 J	0.0456	0.456	2
06142	Silver	7440-22-4	0.0713 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.460	0.0342	0.114	2
06148	Vanadium	7440-62-2	82.6	0.0251	0.114	2
06149	Zinc	7440-66-6	90.2	0.638	3.42	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0106 J	0.0032	0.113	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	9.7	0.92	1.2	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.4 U	10.4	34.5	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.23 U	0.23	1.2	1

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

Sample Description: SL-129-SA5C-SB-9.0-10.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-9.0-10.0

LLI Sample # SW 6133891
 LLI Group # 1220069
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:55

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-9 SDG#: DE010-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	450	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.72	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	13.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10312SLG026	11/18/2010 03:18	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 16:34	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLH026	11/08/2010 23:00	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 18:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1

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

Sample Description: SL-129-SA5C-SB-9.0-10.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5C-SB-9.0-10.0

LLI Sample # SW 6133891
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 10:55

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

129-9 SDG#: DE010-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010 05:45	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103135708001	11/09/2010 22:51	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103131026002D	11/13/2010 18:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103131026002C	11/13/2010 18:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103131026002B	11/13/2010 18:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103131026002A	11/13/2010 18:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103135711003	11/11/2010 10:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103135708001	11/09/2010 12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103131026002	11/09/2010 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103135711003	11/09/2010 13:44	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10319319201B	11/20/2010 07:05	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010 17:48	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 11:55	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10319319201B	11/15/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10312182103A	11/08/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10312039401A	11/08/2010 13:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

Sample Description: SL-112-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133892
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05BKG

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

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

Sample Description: SL-112-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133892
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1 ug/kg	4.0 ug/kg	0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11 ug/kg	4.0 ug/kg	0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23 ug/kg	4.0 ug/kg	0.91
06192	Tetrachloroethene	127-18-4	0.20 U	0.20 ug/kg	4.0 ug/kg	0.91
06192	Toluene	108-88-3	0.15 J	0.08 ug/kg	4.0 ug/kg	0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14 ug/kg	4.0 ug/kg	0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18 ug/kg	4.0 ug/kg	0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20 ug/kg	4.0 ug/kg	0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27 ug/kg	4.0 ug/kg	0.91
06192	Trichloroethene	79-01-6	0.15 U	0.15 ug/kg	4.0 ug/kg	0.91
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29 ug/kg	4.0 ug/kg	0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33 ug/kg	4.0 ug/kg	0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40 ug/kg	4.0 ug/kg	0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1 ug/kg	4.0 ug/kg	0.91
06192	Vinyl Chloride	75-01-4	0.20 U	0.20 ug/kg	4.0 ug/kg	0.91
06192	m+p-Xylene	179601-23-1	0.17 U	0.17 ug/kg	4.0 ug/kg	0.91
06192	o-Xylene	95-47-6	0.17 U	0.17 ug/kg	4.0 ug/kg	0.91
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.3 U	4.3 ug/kg	13 ug/kg	19.56
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	180 U	180 ug/kg	550 ug/kg	1
04688	Benzidine	92-87-5	1,300 U	1,300 ug/kg	3,700 ug/kg	1
04688	Benzoic acid	65-85-0	180 U	180 ug/kg	550 ug/kg	1
04688	Benzyl alcohol	100-51-6	180 U	180 ug/kg	550 ug/kg	1
04688	4-Bromophenyl-phenylether	101-55-3	18 U	18 ug/kg	180 ug/kg	1
04688	Carbazole	86-74-8	18 U	18 ug/kg	180 ug/kg	1
04688	4-Chloro-3-methylphenol	59-50-7	37 U	37 ug/kg	180 ug/kg	1
04688	4-Chloroaniline	106-47-8	73 U	73 ug/kg	180 ug/kg	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18 U	18 ug/kg	180 ug/kg	1
04688	bis(2-Chloroethyl)ether	111-44-4	18 U	18 ug/kg	180 ug/kg	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18 U	18 ug/kg	180 ug/kg	1
04688	2-Chloronaphthalene	91-58-7	18 U	18 ug/kg	180 ug/kg	1
04688	2-Chlorophenol	95-57-8	18 U	18 ug/kg	180 ug/kg	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37 U	37 ug/kg	180 ug/kg	1
04688	Dibenzofuran	132-64-9	18 U	18 ug/kg	180 ug/kg	1
04688	1,2-Dichlorobenzene	95-50-1	18 U	18 ug/kg	180 ug/kg	1
04688	1,3-Dichlorobenzene	541-73-1	18 U	18 ug/kg	180 ug/kg	1
04688	1,4-Dichlorobenzene	106-46-7	18 U	18 ug/kg	180 ug/kg	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110 ug/kg	370 ug/kg	1
04688	2,4-Dichlorophenol	120-83-2	18 U	18 ug/kg	180 ug/kg	1
04688	2,4-Dimethylphenol	105-67-9	37 U	37 ug/kg	180 ug/kg	1
04688	3,5-Dimethylphenol	108-68-9	37 U	37 ug/kg	180 ug/kg	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180 U	180 ug/kg	550 ug/kg	1
04688	2,4-Dinitrophenol	51-28-5	730 U	730 ug/kg	2,200 ug/kg	1
04688	2,4-Dinitrotoluene	121-14-2	37 U	37 ug/kg	180 ug/kg	1
04688	2,6-Dinitrotoluene	606-20-2	18 U	18 ug/kg	180 ug/kg	1
04688	1,2-Diphenylhydrazine	122-66-7	18 U	18 ug/kg	180 ug/kg	1

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

Sample Description: SL-112-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133892
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J 18	370	1
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	37	U 37	180	1
04688	4-Methylphenol	106-44-5	37	U 37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	37	U 37	180	1
04688	4-Nitroaniline	100-01-6	73	U 73	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	180	U 180	550	1
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U 0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U 0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U 0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U 0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U 0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U 6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U 6.6	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U 6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U 6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U 0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U 0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U 0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U 0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U 0.73	1.8	1

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

Sample Description: SL-112-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133892
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8	1
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,000	5.31	21.1	1
07914	Boron	7440-42-8	9.78	0.939	5.28	1
01650	Calcium	7440-70-2	3,920	6.47	21.1	1
01654	Iron	7439-89-6	28,000	4.97	21.1	1
01656	Lithium	7439-93-2	33.1	0.23	2.1	1
01657	Magnesium	7439-95-4	5,180	2.68	10.6	1
06958	Manganese	7439-96-5	559	0.0823	0.528	1
10145	Phosphorus	7723-14-0	156	0.591	10.6	1
01662	Potassium	7440-09-7	1,950	19.0	52.8	1
01667	Sodium	7440-23-5	126	39.4	106	1
07968	Strontium	7440-24-6	33.9	0.0654	0.528	1
06969	Tin	7440-31-5	2.47 J	1.06	10.6	1
06970	Titanium	7440-32-6	1,170	2.01	5.28	5
10146	Zirconium	7440-67-7	4.75 J	0.887	5.28	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.257	0.0627	0.209	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.88	0.0627	0.418	2
06126	Barium	7440-39-3	165	0.282	1.05	5
06127	Beryllium	7440-41-7	1.15	0.0167	0.105	2
06128	Cadmium	7440-43-9	0.204	0.0376	0.105	2
06131	Chromium	7440-47-3	40.2	0.125	0.418	2
06132	Cobalt	7440-48-4	11.4	0.0209	0.105	2
06133	Copper	7440-50-8	10.6	0.0690	0.418	2

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

Sample Description: SL-112-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133892
 LLI Group # 1220069
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	13.3	0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.493	0.0523	0.105	2
06139	Nickel	7440-02-0	23.0	0.105	0.418	2
06141	Selenium	7782-49-2	0.0777 J	0.0418	0.418	2
06142	Silver	7440-22-4	0.118	0.0125	0.105	2
06145	Thallium	7440-28-0	0.481	0.0314	0.105	2
06148	Vanadium	7440-62-2	68.7	0.0230	0.105	2
06149	Zinc	7440-66-6	84.1	0.585	3.14	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	2.0	0.88	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	13.6 J	9.9	32.9	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.27 J	0.22	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	535	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	6.91	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	8.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-112-SA5C-SB-4.5.

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

Sample Description: SL-112-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133892
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 03:23	Angela D Sneringer	0.91
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103121AA	11/08/2010 14:16	Jason M Long	19.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031122874	11/07/2010 08:25	Christopher D Meeks	n.a.
08390	GC/MS - HL Encore Prep	SW-846 5035	2	201031122874	11/07/2010 08:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031122874	11/06/2010 18:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031122874	11/06/2010 18:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031122874	11/06/2010 18:15	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10312SLG026	11/17/2010 11:35	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10312SLH026	11/22/2010 20:59	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLH026	11/08/2010 23:00	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 18:47	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010 04:58	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103135708001	11/09/2010 21:56	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103131026002D	11/16/2010 23:52	David K Beck	5
06127	Beryllium	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103131026002C	11/13/2010 17:26	Choon Y Tian	2

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

Sample Description: SL-112-SA5C-SB-4.0-5.0 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133892
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103131026002B	11/13/2010 17:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103131026002A	11/13/2010 17:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103135711003	11/11/2010 10:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103135708001	11/09/2010 12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103131026002	11/09/2010 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103135711003	11/09/2010 13:44	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10319319201B	11/20/2010 04:03	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010 16:12	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 12:02	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10319319201B	11/15/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10312182103A	11/08/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10312039401A	11/08/2010 13:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

Sample Description: SL-112-SA5C-SB-4.0-5.0MS Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133893
 LLI Group # 1220069
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	220	6.3	7.6	0.86
06192	Benzene	71-43-2	20	0.09	3.8	0.86
06192	Bromobenzene	108-86-1	21	0.12	3.8	0.86
06192	Bromochloromethane	74-97-5	27	0.31	3.8	0.86
06192	Bromodichloromethane	75-27-4	18	0.08	3.8	0.86
06192	Bromoform	75-25-2	14	0.38	3.8	0.86
06192	Bromomethane	74-83-9	16	0.24	3.8	0.86
06192	2-Butanone	78-93-3	160	1.2	7.6	0.86
06192	n-Butylbenzene	104-51-8	22	0.11	3.8	0.86
06192	sec-Butylbenzene	135-98-8	22	0.06	3.8	0.86
06192	tert-Butylbenzene	98-06-6	21	0.15	3.8	0.86
06192	Carbon Tetrachloride	56-23-5	16	0.13	3.8	0.86
06192	Chlorobenzene	108-90-7	20	0.10	3.8	0.86
06192	Chloroethane	75-00-3	16	0.12	3.8	0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.28	3.8	0.86
06192	Chloroform	67-66-3	20	0.11	3.8	0.86
06192	Chloromethane	74-87-3	18	0.31	3.8	0.86
06192	2-Chlorotoluene	95-49-8	21	0.13	3.8	0.86
06192	4-Chlorotoluene	106-43-4	21	0.13	3.8	0.86
06192	Chlorotrifluoroethene	79-38-9	13	0.45	4.5	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.66	3.8	0.86
06192	Dibromochloromethane	124-48-1	17	0.19	3.8	0.86
06192	1,2-Dibromoethane	106-93-4	19	0.16	3.8	0.86
06192	Dibromomethane	74-95-3	20	0.23	3.8	0.86
06192	1,2-Dichlorobenzene	95-50-1	20	0.08	3.8	0.86
06192	1,3-Dichlorobenzene	541-73-1	20	0.11	3.8	0.86
06192	1,4-Dichlorobenzene	106-46-7	20	0.15	3.8	0.86
06192	Dichlorodifluoromethane	75-71-8	16	0.11	3.8	0.86
06192	1,1-Dichloroethane	75-34-3	19	0.09	3.8	0.86
06192	1,2-Dichloroethane	107-06-2	19	0.14	3.8	0.86
06192	1,1-Dichloroethene	75-35-4	17	0.37	3.8	0.86
06192	cis-1,2-Dichloroethene	156-59-2	20	0.18	3.8	0.86
06192	trans-1,2-Dichloroethene	156-60-5	18	0.11	3.8	0.86
06192	1,2-Dichloropropane	78-87-5	19	0.16	3.8	0.86
06192	1,3-Dichloropropane	142-28-9	20	0.08	3.8	0.86
06192	2,2-Dichloropropane	594-20-7	16	0.16	3.8	0.86
06192	1,1-Dichloropropene	563-58-6	20	0.12	3.8	0.86
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.15	3.8	0.86
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.16	3.8	0.86
06192	Ethylbenzene	100-41-4	20	0.06	3.8	0.86
06192	Freon 113	76-13-1	19	0.10	3.8	0.86
06192	Freon 133a	75-88-7	18	0.45	4.5	0.82
06192	Hexachlorobutadiene	87-68-3	21	0.13	3.8	0.86
06192	2-Hexanone	591-78-6	100	1.5	7.6	0.86
06192	Isopropylbenzene	98-82-8	20	0.06	3.8	0.86
06192	p-Isopropyltoluene	99-87-6	21	0.10	3.8	0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.20	3.8	0.86
06192	4-Methyl-2-pentanone	108-10-1	95	0.37	7.6	0.86
06192	Methylene Chloride	75-09-2	18	0.23	3.8	0.86
06192	n-Propylbenzene	103-65-1	22	0.07	3.8	0.86

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133893
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	20	0.09	3.8	0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	17	0.10	3.8	0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	20	0.22	3.8	0.86
06192	Tetrachloroethene	127-18-4	20	0.19	3.8	0.86
06192	Toluene	108-88-3	20	0.08	3.8	0.86
06192	1,2,3-Trichlorobenzene	87-61-6	18	0.13	3.8	0.86
06192	1,2,4-Trichlorobenzene	120-82-1	19	0.17	3.8	0.86
06192	1,1,1-Trichloroethane	71-55-6	18	0.19	3.8	0.86
06192	1,1,2-Trichloroethane	79-00-5	20	0.25	3.8	0.86
06192	Trichloroethene	79-01-6	20	0.14	3.8	0.86
06192	Trichlorofluoromethane	75-69-4	19	0.27	3.8	0.86
06192	1,2,3-Trichloropropane	96-18-4	21	0.31	3.8	0.86
06192	1,2,4-Trimethylbenzene	95-63-6	21	0.38	3.8	0.86
06192	1,3,5-Trimethylbenzene	108-67-8	21	0.09	3.8	0.86
06192	Vinyl Chloride	75-01-4	18	0.19	3.8	0.86
06192	m+p-Xylene	179601-23-1	40	0.16	3.8	0.86
06192	o-Xylene	95-47-6	20	0.16	3.8	0.86
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	130	5.4	16	24.8
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	18	180	1
04688	Acenaphthylene	208-96-8	1,600	18	180	1
04688	Aniline	62-53-3	1,000	180	550	1
04688	Anthracene	120-12-7	1,700	18	180	1
04688	Benzidine	92-87-5	2,500	J 1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180	1
04688	Benzo(a)pyrene	50-32-8	1,600	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,500	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,600	18	180	1
04688	Benzoic acid	65-85-0	580	180	550	1
04688	Benzyl alcohol	100-51-6	1,700	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	18	180	1
04688	Butylbenzylphthalate	85-68-7	1,900	18	180	1
04688	Di-n-butylphthalate	84-74-2	1,600	18	180	1
04688	Carbazole	86-74-8	1,600	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	37	180	1
04688	4-Chloroaniline	106-47-8	900	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400	18	180	1
04688	2-Chloronaphthalene	91-58-7	1,600	18	180	1
04688	2-Chlorophenol	95-57-8	1,700	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600	37	180	1
04688	Chrysene	218-01-9	1,700	18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600	18	180	1
04688	Dibenzofuran	132-64-9	1,600	18	180	1

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MS Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133893
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	880	110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180	1
04688	Diethylphthalate	84-66-2	1,600	18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,600	37	180	1
04688	3,5-Dimethylphenol	108-68-9	1,700	37	180	1
04688	Dimethylphthalate	131-11-3	1,600	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	810	180	550	1
04688	2,4-Dinitrophenol	51-28-5	890	J 730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	1,600	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,600	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	18	370	1
04688	Fluoranthene	206-44-0	1,600	18	180	1
04688	Fluorene	86-73-7	1,600	18	180	1
04688	Hexachlorobenzene	118-74-1	1,700	18	180	1
04688	Hexachlorobutadiene	87-68-3	1,600	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	1,800	180	550	1
04688	Hexachloroethane	67-72-1	1,400	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	18	180	1
04688	Isophorone	78-59-1	1,500	18	180	1
04688	1-Methylnaphthalene	90-12-0	1,600	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180	1
04688	2-Methylphenol	95-48-7	1,600	37	180	1
04688	4-Methylphenol	106-44-5	1,700	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	18	180	1
04688	2-Nitroaniline	88-74-4	1,600	18	180	1
04688	3-Nitroaniline	99-09-2	1,500	37	180	1
04688	4-Nitroaniline	100-01-6	1,100	73	180	1
04688	Nitrobenzene	98-95-3	1,500	18	180	1
04688	2-Nitrophenol	88-75-5	1,700	18	180	1
04688	4-Nitrophenol	100-02-7	1,400	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,700	18	180	1
04688	Pentachlorophenol	87-86-5	1,200	180	550	1
04688	Phenanthrene	85-01-8	1,700	18	180	1
04688	Phenol	108-95-2	1,600	18	180	1
04688	Pyrene	129-00-0	1,900	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	180	1

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MS Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133893
 LLI Group # 1220069
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,700	37	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.73	1.8	1
10138	Acenaphthylene	208-96-8	32	0.37	1.8	1
10138	Anthracene	120-12-7	32	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	34	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	31	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	30	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	36	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	31	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	41	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	40	6.6	20	1
10138	Chrysene	218-01-9	35	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	35	0.73	1.8	1
10138	Diethylphthalate	84-66-2	38	6.6	20	1
10138	Dimethylphthalate	131-11-3	38	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44	6.6	20	1
10138	Fluoranthene	206-44-0	27	0.73	1.8	1
10138	Fluorene	86-73-7	33	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	34	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	30	0.73	1.8	1
10138	Naphthalene	91-20-3	32	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	33	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	41	6.6	20	1
10138	Phenanthrene	85-01-8	33	0.73	1.8	1
10138	Pyrene	129-00-0	35	0.73	1.8	1
Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	14	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9	1
10225	PCB-1260	11096-82-5	22	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,800	5.36	21.3	1
07914	Boron	7440-42-8	205	0.948	5.33	1
01650	Calcium	7440-70-2	4,350	6.53	21.3	1

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MS Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133893
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01654	Iron	7439-89-6	24,300	5.02	21.3	1
01656	Lithium	7439-93-2	134	0.23	2.1	1
01657	Magnesium	7439-95-4	5,470	2.71	10.7	1
06958	Manganese	7439-96-5	262	0.0831	0.533	1
10145	Phosphorus	7723-14-0	212	0.597	10.7	1
01662	Potassium	7440-09-7	2,770	19.2	53.3	1
01667	Sodium	7440-23-5	1,140	39.8	107	1
07968	Strontium	7440-24-6	137	0.0661	0.533	1
06969	Tin	7440-31-5	396	1.07	10.7	1
06970	Titanium	7440-32-6	1,110	2.02	5.33	5
10146	Zirconium	7440-67-7	106	0.895	5.33	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.68	0.0633	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	9.19	0.0633	0.422	2
06126	Barium	7440-39-3	161	0.285	1.06	5
06127	Beryllium	7440-41-7	1.82	0.0169	0.106	2
06128	Cadmium	7440-43-9	1.72	0.0380	0.106	2
06131	Chromium	7440-47-3	47.6	0.127	0.422	2
06132	Cobalt	7440-48-4	64.7	0.0211	0.106	2
06133	Copper	7440-50-8	22.1	0.0697	0.422	2
06135	Lead	7439-92-1	12.8	0.0110	0.211	2
06138	Molybdenum	7439-98-7	15.9	0.0528	0.106	2
06139	Nickel	7440-02-0	31.5	0.106	0.422	2
06141	Selenium	7782-49-2	2.64	0.0422	0.422	2
06142	Silver	7440-22-4	15.6	0.0127	0.106	2
06145	Thallium	7440-28-0	0.930	0.0317	0.106	2
06148	Vanadium	7440-62-2	66.6	0.0232	0.106	2
06149	Zinc	7440-66-6	86.8	0.591	3.17	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.184	0.0029	0.101	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	11.0	0.88	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	641	9.9	32.9	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	38.8	1.1	5.5	5
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11625	Moisture CDM	n.a.	8.9	0.50	0.50	1

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MS Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133893
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MS

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-112-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 03:46	Angela D Sneeringer	0.86
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 04:31	Angela D Sneeringer	0.82
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103121AA	11/08/2010 14:36	Jason M Long	24.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031122874	11/07/2010 08:30	Christopher D Meeks	n.a.
08390	GC/MS - HL Encore Prep	SW-846 5035	2	201031122874	11/07/2010 08:30	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031122874	11/06/2010 18:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031122874	11/06/2010 18:24	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031122874	11/06/2010 18:21	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10312SLG026	11/17/2010 12:01	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 10:07	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLH026	11/08/2010 23:00	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 19:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010 05:09	Tara L Snyder	5

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MS Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133893
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103135708001	11/09/2010 22:08	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103131026002D	11/16/2010 23:58	David K Beck	5
06127	Beryllium	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103131026002C	11/13/2010 17:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103131026002B	11/13/2010 17:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103131026002A	11/13/2010 17:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103135711003	11/11/2010 10:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103135708001	11/09/2010 12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103131026002	11/09/2010 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103135711003	11/09/2010 13:44	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10319319201B	11/20/2010 04:33	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010 17:00	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 12:23	William L Hamaker Jr	5
01352	Deionized Water Extraction	EPA 300.0	1	10319319201B	11/15/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010 13:30	Nancy J Shoop	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11625	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

Sample Description: SL-112-SA5C-SB-4.0-5.0MSD Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133894
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	220	6.6	7.9	0.89
06192	Benzene	71-43-2	19	0.1	3.9	0.89
06192	Bromobenzene	108-86-1	20	0.13	3.9	0.89
06192	Bromochloromethane	74-97-5	27	0.32	3.9	0.89
06192	Bromodichloromethane	75-27-4	18	0.08	3.9	0.89
06192	Bromoform	75-25-2	14	0.39	3.9	0.89
06192	Bromomethane	74-83-9	16	0.25	3.9	0.89
06192	2-Butanone	78-93-3	160	1.2	7.9	0.89
06192	n-Butylbenzene	104-51-8	20	0.12	3.9	0.89
06192	sec-Butylbenzene	135-98-8	21	0.06	3.9	0.89
06192	tert-Butylbenzene	98-06-6	20	0.16	3.9	0.89
06192	Carbon Tetrachloride	56-23-5	16	0.14	3.9	0.89
06192	Chlorobenzene	108-90-7	19	0.11	3.9	0.89
06192	Chloroethane	75-00-3	16	0.13	3.9	0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	20	0.29	3.9	0.89
06192	Chloroform	67-66-3	20	0.12	3.9	0.89
06192	Chloromethane	74-87-3	18	0.32	3.9	0.89
06192	2-Chlorotoluene	95-49-8	20	0.14	3.9	0.89
06192	4-Chlorotoluene	106-43-4	19	0.14	3.9	0.89
06192	Chlorotrifluoroethene	79-38-9	13	0.45	4.5	0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.69	3.9	0.89
06192	Dibromochloromethane	124-48-1	17	0.20	3.9	0.89
06192	1,2-Dibromoethane	106-93-4	19	0.17	3.9	0.89
06192	Dibromomethane	74-95-3	19	0.24	3.9	0.89
06192	1,2-Dichlorobenzene	95-50-1	19	0.09	3.9	0.89
06192	1,3-Dichlorobenzene	541-73-1	19	0.12	3.9	0.89
06192	1,4-Dichlorobenzene	106-46-7	19	0.16	3.9	0.89
06192	Dichlorodifluoromethane	75-71-8	17	0.12	3.9	0.89
06192	1,1-Dichloroethane	75-34-3	19	0.1	3.9	0.89
06192	1,2-Dichloroethane	107-06-2	19	0.15	3.9	0.89
06192	1,1-Dichloroethene	75-35-4	17	0.38	3.9	0.89
06192	cis-1,2-Dichloroethene	156-59-2	19	0.19	3.9	0.89
06192	trans-1,2-Dichloroethene	156-60-5	18	0.12	3.9	0.89
06192	1,2-Dichloropropane	78-87-5	19	0.17	3.9	0.89
06192	1,3-Dichloropropane	142-28-9	19	0.08	3.9	0.89
06192	2,2-Dichloropropane	594-20-7	17	0.17	3.9	0.89
06192	1,1-Dichloropropene	563-58-6	20	0.13	3.9	0.89
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.16	3.9	0.89
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.17	3.9	0.89
06192	Ethylbenzene	100-41-4	20	0.06	3.9	0.89
06192	Freon 113	76-13-1	19	0.11	3.9	0.89
06192	Freon 133a	75-88-7	18	0.45	4.5	0.81
06192	Hexachlorobutadiene	87-68-3	19	0.14	3.9	0.89
06192	2-Hexanone	591-78-6	100	1.6	7.9	0.89
06192	Isopropylbenzene	98-82-8	20	0.06	3.9	0.89
06192	p-Isopropyltoluene	99-87-6	20	0.11	3.9	0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.21	3.9	0.89
06192	4-Methyl-2-pentanone	108-10-1	92	0.38	7.9	0.89
06192	Methylene Chloride	75-09-2	19	0.24	3.9	0.89
06192	n-Propylbenzene	103-65-1	21	0.07	3.9	0.89

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MSD Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133894
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	19	0.1	3.9	0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	17	0.11	3.9	0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	19	0.23	3.9	0.89
06192	Tetrachloroethene	127-18-4	19	0.20	3.9	0.89
06192	Toluene	108-88-3	20	0.08	3.9	0.89
06192	1,2,3-Trichlorobenzene	87-61-6	18	0.14	3.9	0.89
06192	1,2,4-Trichlorobenzene	120-82-1	18	0.18	3.9	0.89
06192	1,1,1-Trichloroethane	71-55-6	18	0.20	3.9	0.89
06192	1,1,2-Trichloroethane	79-00-5	19	0.27	3.9	0.89
06192	Trichloroethene	79-01-6	19	0.15	3.9	0.89
06192	Trichlorofluoromethane	75-69-4	20	0.28	3.9	0.89
06192	1,2,3-Trichloropropane	96-18-4	20	0.32	3.9	0.89
06192	1,2,4-Trimethylbenzene	95-63-6	20	0.39	3.9	0.89
06192	1,3,5-Trimethylbenzene	108-67-8	20	0.1	3.9	0.89
06192	Vinyl Chloride	75-01-4	18	0.20	3.9	0.89
06192	m+p-Xylene	179601-23-1	38	0.17	3.9	0.89
06192	o-Xylene	95-47-6	19	0.17	3.9	0.89
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	110	4.6	14	21.01
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	18	180	1
04688	Acenaphthylene	208-96-8	1,600	18	180	1
04688	Aniline	62-53-3	1,200	180	550	1
04688	Anthracene	120-12-7	1,700	18	180	1
04688	Benzidine	92-87-5	3,600	J 1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180	1
04688	Benzo(a)pyrene	50-32-8	1,600	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,600	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,500	18	180	1
04688	Benzoic acid	65-85-0	1,100	180	550	1
04688	Benzyl alcohol	100-51-6	1,700	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	18	180	1
04688	Butylbenzylphthalate	85-68-7	1,800	18	180	1
04688	Di-n-butylphthalate	84-74-2	1,600	18	180	1
04688	Carbazole	86-74-8	1,700	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	37	180	1
04688	4-Chloroaniline	106-47-8	990	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	18	180	1
04688	2-Chloronaphthalene	91-58-7	1,600	18	180	1
04688	2-Chlorophenol	95-57-8	1,700	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600	37	180	1
04688	Chrysene	218-01-9	1,600	18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600	18	180	1
04688	Dibenzofuran	132-64-9	1,600	18	180	1

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MSD Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133894
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,600	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	910	110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180	1
04688	Diethylphthalate	84-66-2	1,600	18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,700	37	180	1
04688	3,5-Dimethylphenol	108-68-9	1,700	37	180	1
04688	Dimethylphthalate	131-11-3	1,600	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100	180	550	1
04688	2,4-Dinitrophenol	51-28-5	1,400	J 730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	1,600	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	18	370	1
04688	Fluoranthene	206-44-0	1,600	18	180	1
04688	Fluorene	86-73-7	1,600	18	180	1
04688	Hexachlorobenzene	118-74-1	1,800	18	180	1
04688	Hexachlorobutadiene	87-68-3	1,700	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	1,900	180	550	1
04688	Hexachloroethane	67-72-1	1,500	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	18	180	1
04688	Isophorone	78-59-1	1,500	18	180	1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180	1
04688	2-Methylphenol	95-48-7	1,700	37	180	1
04688	4-Methylphenol	106-44-5	1,800	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	18	180	1
04688	2-Nitroaniline	88-74-4	1,600	18	180	1
04688	3-Nitroaniline	99-09-2	1,500	37	180	1
04688	4-Nitroaniline	100-01-6	1,200	73	180	1
04688	Nitrobenzene	98-95-3	1,600	18	180	1
04688	2-Nitrophenol	88-75-5	1,700	18	180	1
04688	4-Nitrophenol	100-02-7	1,400	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,700	18	180	1
04688	Pentachlorophenol	87-86-5	1,400	180	550	1
04688	Phenanthrene	85-01-8	1,700	18	180	1
04688	Phenol	108-95-2	1,700	18	180	1
04688	Pyrene	129-00-0	1,900	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	180	1

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MSD Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133894
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,700	37	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	36	0.73	1.8	1
10138	Acenaphthylene	208-96-8	32	0.37	1.8	1
10138	Anthracene	120-12-7	34	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	34	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	32	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	30	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	36	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	31	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	41	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	42	6.6	20	1
10138	Chrysene	218-01-9	35	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	37	0.73	1.8	1
10138	Diethylphthalate	84-66-2	39	6.6	20	1
10138	Dimethylphthalate	131-11-3	37	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	50	6.6	20	1
10138	Fluoranthene	206-44-0	30	0.73	1.8	1
10138	Fluorene	86-73-7	33	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	36	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	34	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	30	0.73	1.8	1
10138	Naphthalene	91-20-3	32	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	36	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	38	6.6	20	1
10138	Phenanthrene	85-01-8	34	0.73	1.8	1
10138	Pyrene	129-00-0	37	0.73	1.8	1
Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	17	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9	1
10225	PCB-1260	11096-82-5	25	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	28,600	5.47	21.7	1
07914	Boron	7440-42-8	214	0.967	5.43	1
01650	Calcium	7440-70-2	4,320	6.66	21.7	1

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MSD Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133894
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01654	Iron	7439-89-6	24,100	5.12	21.7	1
01656	Lithium	7439-93-2	140	0.24	2.2	1
01657	Magnesium	7439-95-4	5,530	2.76	10.9	1
06958	Manganese	7439-96-5	366	0.0848	0.543	1
10145	Phosphorus	7723-14-0	199	0.609	10.9	1
01662	Potassium	7440-09-7	3,090	19.6	54.3	1
01667	Sodium	7440-23-5	1,180	40.5	109	1
07968	Strontium	7440-24-6	140	0.0674	0.543	1
06969	Tin	7440-31-5	397	1.09	10.9	1
06970	Titanium	7440-32-6	1,630	2.06	5.43	5
10146	Zirconium	7440-67-7	111	0.913	5.43	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.30	0.0652	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	11.7	0.0652	0.435	2
06126	Barium	7440-39-3	164	0.293	1.09	5
06127	Beryllium	7440-41-7	2.04	0.0174	0.109	2
06128	Cadmium	7440-43-9	1.67	0.0391	0.109	2
06131	Chromium	7440-47-3	49.8	0.130	0.435	2
06132	Cobalt	7440-48-4	70.9	0.0217	0.109	2
06133	Copper	7440-50-8	23.5	0.0717	0.435	2
06135	Lead	7439-92-1	17.6	0.0113	0.217	2
06138	Molybdenum	7439-98-7	16.0	0.0543	0.109	2
06139	Nickel	7440-02-0	35.7	0.109	0.435	2
06141	Selenium	7782-49-2	2.70	0.0435	0.435	2
06142	Silver	7440-22-4	16.1	0.0130	0.109	2
06145	Thallium	7440-28-0	1.05	0.0326	0.109	2
06148	Vanadium	7440-62-2	80.0	0.0239	0.109	2
06149	Zinc	7440-66-6	91.5	0.609	3.26	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.178	0.0030	0.105	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11625	Moisture CDM	n.a.	8.9	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-112-SA5C-SB-4.5.

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

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MSD Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133894
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 04:08	Angela D Sneeringer	0.89
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 04:54	Angela D Sneeringer	0.81
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103121AA	11/08/2010 14:55	Jason M Long	21.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031122874	11/07/2010 08:33	Christopher D Meeks	n.a.
08390	GC/MS - HL Encore Prep	SW-846 5035	2	201031122874	11/07/2010 08:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201031122874	11/06/2010 18:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201031122874	11/06/2010 18:24	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031122874	11/06/2010 18:18	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10312SLG026	11/17/2010 12:26	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 10:39	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLH026	11/08/2010 23:00	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 19:24	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010 05:13	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103135708001	11/09/2010 22:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103131026002A	11/13/2010 17:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103131026002A	11/13/2010 17:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103131026002D	11/17/2010 00:00	David K Beck	5
06127	Beryllium	SW-846 6020	1	103131026002A	11/13/2010 17:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103131026002A	11/13/2010 17:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103131026002A	11/13/2010 17:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103131026002A	11/13/2010 17:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103131026002A	11/13/2010 17:38	Choon Y Tian	2

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

Sample Description: SL-112-SA5C-SB-4.0-5.0MSD Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133894
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103131026002A	11/13/2010	17:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103131026002C	11/13/2010	17:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103131026002A	11/13/2010	17:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103131026002B	11/13/2010	17:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103131026002A	11/13/2010	17:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103131026002A	11/13/2010	17:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103131026002A	11/13/2010	17:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103131026002A	11/13/2010	17:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103135711003	11/11/2010	10:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103135708001	11/09/2010	12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103131026002	11/09/2010	12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A	1	103135711003	11/09/2010	13:44	James L Mertz	1
11625	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010	05:21	William C Schwebel	1

Sample Description: SL-112-SA5C-SB-4.0-5.0DUP Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133895
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,100	5.47	21.7	1
07914	Boron	7440-42-8	8.70	0.967	5.43	1
01650	Calcium	7440-70-2	3,740	6.66	21.7	1
01654	Iron	7439-89-6	26,800	5.12	21.7	1
01656	Lithium	7439-93-2	30.5	0.24	2.2	1
01657	Magnesium	7439-95-4	5,110	2.76	10.9	1
06958	Manganese	7439-96-5	765	0.0848	0.543	1
10145	Phosphorus	7723-14-0	137	0.609	10.9	1
01662	Potassium	7440-09-7	1,820	19.6	54.3	1
01667	Sodium	7440-23-5	125	40.5	109	1
07968	Strontium	7440-24-6	33.0	0.0674	0.543	1
06969	Tin	7440-31-5	2.45 J	1.09	10.9	1
06970	Titanium	7440-32-6	1,210	2.06	5.43	5
10146	Zirconium	7440-67-7	5.60	0.913	5.43	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.302	0.0627	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.82	0.0627	0.418	2
06126	Barium	7440-39-3	172	0.282	1.05	5
06127	Beryllium	7440-41-7	1.11	0.0167	0.105	2
06128	Cadmium	7440-43-9	0.190	0.0376	0.105	2
06131	Chromium	7440-47-3	35.4	0.125	0.418	2
06132	Cobalt	7440-48-4	7.60	0.0209	0.105	2
06133	Copper	7440-50-8	12.2	0.0690	0.418	2
06135	Lead	7439-92-1	11.0	0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.597	0.0523	0.105	2
06139	Nickel	7440-02-0	19.3	0.105	0.418	2
06141	Selenium	7782-49-2	0.100 J	0.0418	0.418	2
06142	Silver	7440-22-4	0.0985 J	0.0125	0.105	2
06145	Thallium	7440-28-0	0.389	0.0314	0.105	2
06148	Vanadium	7440-62-2	61.1	0.0230	0.105	2
06149	Zinc	7440-66-6	73.5	0.585	3.14	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0033 J	0.0031	0.109	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	1.7	0.88	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.9 U	9.9	32.9	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.52 J	0.22	1.1	1

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

Sample Description: SL-112-SA5C-SB-4.0-5.0DUP Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133895
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	534	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	6.92	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11626	CDM Moisture Duplicate	n.a.	9.4	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture CDM	n.a.	8.9	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010 05:05	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103135708001	11/09/2010 22:04	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103131026002A	11/13/2010 17:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103131026002A	11/13/2010 17:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103131026002D	11/16/2010 23:56	David K Beck	5
06127	Beryllium	SW-846 6020	1	103131026002A	11/13/2010 17:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103131026002A	11/13/2010 17:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103131026002A	11/13/2010 17:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103131026002A	11/13/2010 17:32	Choon Y Tian	2

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

Sample Description: SL-112-SA5C-SB-4.0-5.0DUP Grab Soil
 SSFL Area IV Collocated Soil Sampling
 SL-112-SA5C-SB-4.0-5.0

LLI Sample # SW 6133895
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 14:50

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

12--4 SDG#: DE010-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103131026002A	11/13/2010	17:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103131026002A	11/13/2010	17:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103131026002C	11/13/2010	17:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103131026002A	11/13/2010	17:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103131026002B	11/13/2010	17:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103131026002A	11/13/2010	17:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103131026002A	11/13/2010	17:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103131026002A	11/13/2010	17:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103131026002A	11/13/2010	17:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103135711003	11/11/2010	10:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103135708001	11/09/2010	12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103131026002	11/09/2010	12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103135711003	11/09/2010	13:44	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10319319201B	11/20/2010	04:18	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010	16:36	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010	13:05	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10319319201B	11/15/2010	13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010	13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10312182103A	11/08/2010	13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10312039401A	11/08/2010	13:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010	21:40	Daniel S Smith	1
11625	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010	05:21	William C Schwebel	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	10314162401A	11/11/2010	05:21	William C Schwebel	1

Sample Description: DUP06-SA5C-QC-110510 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 DUP06-SA5C-QC-110510

LLI Sample # SW 6133896
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 15:00

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

D6-05 SDG#: DE010-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3 U	7.3	8.7	0.99
06192	Benzene	71-43-2	0.11 U	0.11	4.3	0.99
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3	0.99
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.3	0.99
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3	0.99
06192	Bromoform	75-25-2	0.43 U	0.43	4.3	0.99
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3	0.99
06192	2-Butanone	78-93-3	1.3 U	1.3	8.7	0.99
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3	0.99
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.3	0.99
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3	0.99
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3	0.99
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3	0.99
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3	0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.3	0.99
06192	Chloroform	67-66-3	0.13 U	0.13	4.3	0.99
06192	Chloromethane	74-87-3	0.36 U	0.36	4.3	0.99
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3	0.99
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3	0.99
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4	0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76 U	0.76	4.3	0.99
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.3	0.99
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.3	0.99
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3	0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3	0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3	0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3	0.99
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3	0.99
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3	0.99
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3	0.99
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3	0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.3	0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3	0.99
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.3	0.99
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3	0.99
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.3	0.99
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3	0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3	0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.3	0.99
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.3	0.99
06192	Freon 113	76-13-1	0.12 U	0.12	4.3	0.99
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4	0.99
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3	0.99
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.7	0.99
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.3	0.99
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3	0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.3	0.99
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.7	0.99
06192	Methylene Chloride	75-09-2	0.26 U	0.26	4.3	0.99
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.3	0.99

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

Sample Description: DUP06-SA5C-QC-110510 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 DUP06-SA5C-QC-110510

LLI Sample # SW 6133896
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 15:00

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

D6-05 SDG#: DE010-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.11 U	0.11 ug/kg	4.3 ug/kg	0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12 ug/kg	4.3 ug/kg	0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25 ug/kg	4.3 ug/kg	0.99
06192	Tetrachloroethene	127-18-4	0.22 U	0.22 ug/kg	4.3 ug/kg	0.99
06192	Toluene	108-88-3	0.11 J	0.09 ug/kg	4.3 ug/kg	0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15 ug/kg	4.3 ug/kg	0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20 ug/kg	4.3 ug/kg	0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22 ug/kg	4.3 ug/kg	0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29 ug/kg	4.3 ug/kg	0.99
06192	Trichloroethene	79-01-6	0.16 U	0.16 ug/kg	4.3 ug/kg	0.99
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31 ug/kg	4.3 ug/kg	0.99
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36 ug/kg	4.3 ug/kg	0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43 ug/kg	4.3 ug/kg	0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11 ug/kg	4.3 ug/kg	0.99
06192	Vinyl Chloride	75-01-4	0.22 U	0.22 ug/kg	4.3 ug/kg	0.99
06192	m+p-Xylene	179601-23-1	0.19 U	0.19 ug/kg	4.3 ug/kg	0.99
06192	o-Xylene	95-47-6	0.19 U	0.19 ug/kg	4.3 ug/kg	0.99
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.7 U	4.7 ug/kg	14 ug/kg	21.11
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	180 U	180 ug/kg	550 ug/kg	1
04688	Benzidine	92-87-5	1,300 U	1,300 ug/kg	3,700 ug/kg	1
04688	Benzoic acid	65-85-0	180 U	180 ug/kg	550 ug/kg	1
04688	Benzyl alcohol	100-51-6	180 U	180 ug/kg	550 ug/kg	1
04688	4-Bromophenyl-phenylether	101-55-3	18 U	18 ug/kg	180 ug/kg	1
04688	Carbazole	86-74-8	18 U	18 ug/kg	180 ug/kg	1
04688	4-Chloro-3-methylphenol	59-50-7	37 U	37 ug/kg	180 ug/kg	1
04688	4-Chloroaniline	106-47-8	73 U	73 ug/kg	180 ug/kg	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18 U	18 ug/kg	180 ug/kg	1
04688	bis(2-Chloroethyl)ether	111-44-4	18 U	18 ug/kg	180 ug/kg	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18 U	18 ug/kg	180 ug/kg	1
04688	2-Chloronaphthalene	91-58-7	18 U	18 ug/kg	180 ug/kg	1
04688	2-Chlorophenol	95-57-8	18 U	18 ug/kg	180 ug/kg	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37 U	37 ug/kg	180 ug/kg	1
04688	Dibenzofuran	132-64-9	18 U	18 ug/kg	180 ug/kg	1
04688	1,2-Dichlorobenzene	95-50-1	18 U	18 ug/kg	180 ug/kg	1
04688	1,3-Dichlorobenzene	541-73-1	18 U	18 ug/kg	180 ug/kg	1
04688	1,4-Dichlorobenzene	106-46-7	18 U	18 ug/kg	180 ug/kg	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110 ug/kg	370 ug/kg	1
04688	2,4-Dichlorophenol	120-83-2	18 U	18 ug/kg	180 ug/kg	1
04688	2,4-Dimethylphenol	105-67-9	37 U	37 ug/kg	180 ug/kg	1
04688	3,5-Dimethylphenol	108-68-9	37 U	37 ug/kg	180 ug/kg	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180 U	180 ug/kg	550 ug/kg	1
04688	2,4-Dinitrophenol	51-28-5	730 U	730 ug/kg	2,200 ug/kg	1
04688	2,4-Dinitrotoluene	121-14-2	37 U	37 ug/kg	180 ug/kg	1
04688	2,6-Dinitrotoluene	606-20-2	18 U	18 ug/kg	180 ug/kg	1
04688	1,2-Diphenylhydrazine	122-66-7	18 U	18 ug/kg	180 ug/kg	1

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

Sample Description: DUP06-SA5C-QC-110510 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 DUP06-SA5C-QC-110510

LLI Sample # SW 6133896
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 15:00

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

D6-05 SDG#: DE010-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	37	U 37	180	1
04688	4-Methylphenol	106-44-5	37	U 37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	37	U 37	180	1
04688	4-Nitroaniline	100-01-6	73	U 73	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	180	U 180	550	1
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U 0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U 0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U 0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U 0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U 0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U 6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U 6.6	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U 6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U 6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J 6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U 0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U 0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U 0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U 0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U 0.73	1.8	1

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

Sample Description: DUP06-SA5C-QC-110510 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 DUP06-SA5C-QC-110510

LLI Sample # SW 6133896
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 15:00

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

D6-05 SDG#: DE010-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8	1
Pesticides/PCBs SW-846 8082			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B		mg/kg	mg/kg	mg/kg		
01643	Aluminum	7429-90-5	22,200	5.33	21.2	1
07914	Boron	7440-42-8	8.65	0.942	5.29	1
01650	Calcium	7440-70-2	3,650	6.49	21.2	1
01654	Iron	7439-89-6	23,800	4.99	21.2	1
01656	Lithium	7439-93-2	27.7	0.23	2.1	1
01657	Magnesium	7439-95-4	5,020	2.69	10.6	1
06958	Manganese	7439-96-5	302	0.0826	0.529	1
10145	Phosphorus	7723-14-0	136	0.593	10.6	1
01662	Potassium	7440-09-7	1,730	19.1	52.9	1
01667	Sodium	7440-23-5	119	39.5	106	1
07968	Strontium	7440-24-6	29.8	0.0657	0.529	1
06969	Tin	7440-31-5	2.42 J	1.06	10.6	1
06970	Titanium	7440-32-6	1,260	2.01	5.29	5
10146	Zirconium	7440-67-7	4.86 J	0.890	5.29	1
SW-846 6020		mg/kg	mg/kg	mg/kg		
06124	Antimony	7440-36-0	0.242	0.0661	0.220	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.15	0.0661	0.441	2
06126	Barium	7440-39-3	159	0.297	1.10	5
06127	Beryllium	7440-41-7	0.965	0.0176	0.110	2
06128	Cadmium	7440-43-9	0.127	0.0396	0.110	2
06131	Chromium	7440-47-3	36.5	0.132	0.441	2
06132	Cobalt	7440-48-4	5.86	0.0220	0.110	2
06133	Copper	7440-50-8	9.69	0.0727	0.441	2

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

Sample Description: DUP06-SA5C-QC-110510 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 DUP06-SA5C-QC-110510

LLI Sample # SW 6133896
 LLI Group # 1220069
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 15:00

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

D6-05 SDG#: DE010-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	8.35	0.0115	0.220	2
06138	Molybdenum	7439-98-7	0.449	0.0551	0.110	2
06139	Nickel	7440-02-0	19.1	0.110	0.441	2
06141	Selenium	7782-49-2	0.0863 J	0.0441	0.441	2
06142	Silver	7440-22-4	0.117	0.0132	0.110	2
06145	Thallium	7440-28-0	0.355	0.0330	0.110	2
06148	Vanadium	7440-62-2	56.2	0.0242	0.110	2
06149	Zinc	7440-66-6	75.2	0.617	3.30	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	2.7	0.88	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.9 U	9.9	33.0	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.32 J	0.22	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	544	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.05	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	9.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

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

Sample Description: DUP06-SA5C-QC-110510 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 DUP06-SA5C-QC-110510

LLI Sample # SW 6133896
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 15:00

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

D6-05 SDG#: DE010-06FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	E103142AA	11/11/2010 08:30	Ryan V Nolt	0.99
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103121AA	11/08/2010 13:56	Jason M Long	21.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031122874	11/06/2010 18:11	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031122874	11/06/2010 18:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031122874	11/06/2010 18:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031122874	11/06/2010 18:11	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10312SLG026	11/18/2010 03:43	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 17:05	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLH026	11/08/2010 23:00	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 19:42	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010 05:48	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103135708001	11/09/2010 22:55	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103131026002D	11/17/2010 00:03	David K Beck	5
06127	Beryllium	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103131026002C	11/13/2010 18:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103131026002B	11/13/2010 18:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2

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

Sample Description: DUP06-SA5C-QC-110510 Grab Soil
 SSFL Area IV Collocated Soil Sampling
 DUP06-SA5C-QC-110510

LLI Sample # SW 6133896
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 15:00

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

D6-05 SDG#: DE010-06FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103131026002A	11/13/2010 18:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103135711003	11/11/2010 10:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103135708001	11/09/2010 12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103131026002	11/09/2010 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103135711003	11/09/2010 13:44	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10319319201B	11/20/2010 07:21	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010 18:12	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 13:32	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10319319201B	11/15/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10312182103A	11/08/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10312039401A	11/08/2010 13:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

Sample Description: TB-110510 Water
 SSFL Area IV Collocated Soil Sampling
 TB-110510

LLI Sample # WW 6133897
 LLI Group # 1220069
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 16:30

CDM Federal Programs Corp.

Submitted: 11/06/2010 10:20

14420 Albemarle Point Place

Reported: 11/29/2010 17:35

Suite 210

Chantilly VA 20151

T1105 SDG#: DE010-07TB

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

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



Analysis Report

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

Sample Description: TB-110510 Water
 SSFL Area IV Collocated Soil Sampling
 TB-110510

LLI Sample # WW 6133897
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 16:30

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

T1105 SDG#: DE010-07TB

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103121AA	11/09/2010 00:10	Frank A Valla, Jr	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103122AA	11/08/2010 18:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103122AA	11/08/2010 18:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103121AA	11/09/2010 00:10	Frank A Valla, Jr	1

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

Sample Description: EB05-SA5C-110510 Grab Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5C-110510

LLI Sample # WW 6133898
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 13:30

CDM Federal Programs Corp.

Submitted: 11/06/2010 10:20

14420 Albemarle Point Place

Reported: 11/29/2010 17:35

Suite 210

Chantilly VA 20151

E1105 SDG#: DE010-08EB*

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

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

Sample Description: EB05-SA5C-110510 Grab Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5C-110510

LLI Sample # WW 6133898
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 13:30

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

E1105 SDG#: DE010-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	21	U	21	63	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1

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

Sample Description: EB05-SA5C-110510 Grab Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5C-110510

LLI Sample # WW 6133898
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 13:30

CDM Federal Programs Corp.

Submitted: 11/06/2010 10:20

14420 Albemarle Point Place

Reported: 11/29/2010 17:35

Suite 210

Chantilly VA 20151

E1105 SDG#: DE010-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l		
04678	2,6-Dinitrotoluene	606-20-2	1 U	1	5	1	
04678	1,2-Diphenylhydrazine	122-66-7	1 U	1	5	1	
04678	Hexachlorobenzene	118-74-1	1 U	1	5	1	
04678	Hexachlorobutadiene	87-68-3	1 U	1	5	1	
04678	Hexachlorocyclopentadiene	77-47-4	5 U	5	16	1	
04678	Hexachloroethane	67-72-1	1 U	1	5	1	
04678	Isophorone	78-59-1	1 U	1	5	1	
04678	2-Methylphenol	95-48-7	1 U	1	5	1	
04678	4-Methylphenol	106-44-5	2 U	2	5	1	
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1 U	1	5	1	
04678	3-Nitroaniline	99-09-2	1 U	1	5	1	
04678	4-Nitroaniline	100-01-6	1 U	1	5	1	
04678	Nitrobenzene	98-95-3	1 U	1	5	1	
04678	2-Nitrophenol	88-75-5	1 U	1	5	1	
04678	4-Nitrophenol	100-02-7	11 U	11	32	1	
04678	N-Nitroso-di-n-propylamine	621-64-7	1 U	1	5	1	
04678	N-Nitrosodiphenylamine	86-30-6	2 U	2	5	1	
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3 U	3	16	1	
04678	Phenol	108-95-2	1 U	1	5	1	
04678	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1	
04678	2,4,5-Trichlorophenol	95-95-4	1 U	1	5	1	
04678	2,4,6-Trichlorophenol	88-06-2	1 U	1	5	1	
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l		
10137	Acenaphthene	83-32-9	0.0096 U	0.0096	0.048	1	
10137	Acenaphthylene	208-96-8	0.0096 U	0.0096	0.048	1	
10137	Anthracene	120-12-7	0.0096 U	0.0096	0.048	1	
10137	Benzo(a)anthracene	56-55-3	0.0096 U	0.0096	0.048	1	
10137	Benzo(a)pyrene	50-32-8	0.0096 U	0.0096	0.048	1	
10137	Benzo(b)fluoranthene	205-99-2	0.0096 U	0.0096	0.048	1	
10137	Benzo(g,h,i)perylene	191-24-2	0.0096 U	0.0096	0.048	1	
10137	Benzo(k)fluoranthene	207-08-9	0.0096 U	0.0096	0.048	1	
10137	Butylbenzylphthalate	85-68-7	0.048 U	0.048	0.96	1	
10137	Di-n-butylphthalate	84-74-2	0.13 J	0.048	0.96	1	
10137	Chrysene	218-01-9	0.0096 U	0.0096	0.048	1	
10137	Dibenz(a,h)anthracene	53-70-3	0.0096 U	0.0096	0.048	1	
10137	Diethylphthalate	84-66-2	0.068 J	0.048	0.96	1	
10137	Dimethylphthalate	131-11-3	0.048 U	0.048	0.96	1	
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.29 J	0.048	0.96	1	
10137	Fluoranthene	206-44-0	0.0096 U	0.0096	0.048	1	
10137	Fluorene	86-73-7	0.0096 U	0.0096	0.048	1	
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0096 U	0.0096	0.048	1	
10137	1-Methylnaphthalene	90-12-0	0.0096 U	0.0096	0.048	1	

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

Sample Description: EB05-SA5C-110510 Grab Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5C-110510

LLI Sample # WW 6133898
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 13:30

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

E1105 SDG#: DE010-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10137	2-Methylnaphthalene	91-57-6	0.0096 U	0.0096	0.048	1
10137	Naphthalene	91-20-3	0.051	0.0096	0.048	1
10137	N-Nitrosodimethylamine	62-75-9	0.0096 U	0.0096	0.048	1
10137	Di-n-octylphthalate	117-84-0	0.21 J	0.048	0.96	1
10137	Phenanthrene	85-01-8	0.0096 U	0.0096	0.048	1
10137	Pyrene	129-00-0	0.0096 U	0.0096	0.048	1

The QC limits for n-nitrosodimethylamine and di-n-octylphthalate are advisory only until sufficient data points can be obtained to calculate statistical limits.

The following compounds were detected in the method blank at the respective concentrations of:

diethylphthalate .066 ug/l
 bis(2-ethylhexyl)phthalate .071 ug/l

These blank values were not subtracted from the analytical results.

Pesticides/PCBs		SW-846 8082	ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.11 U	0.11	0.57	1
10227	Aroclor 5442	12642-23-8	0.11 U	0.11	0.57	1
10227	Aroclor 5460	11126-42-4	0.11 U	0.11	0.57	1
10227	PCB-1016	12674-11-2	0.11 U	0.11	0.57	1
10227	PCB-1221	11104-28-2	0.11 U	0.11	0.57	1
10227	PCB-1232	11141-16-5	0.23 U	0.23	0.57	1
10227	PCB-1242	53469-21-9	0.11 U	0.11	0.57	1
10227	PCB-1248	12672-29-6	0.11 U	0.11	0.57	1
10227	PCB-1254	11097-69-1	0.11 U	0.11	0.57	1
10227	PCB-1260	11096-82-5	0.11 U	0.11	0.57	1
10227	PCB-1262	37324-23-5	0.23 U	0.23	0.57	1
10227	PCB-1268	11100-14-4	0.18 U	0.18	0.57	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1

Sample Description: EB05-SA5C-110510 Grab Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5C-110510

LLI Sample # WW 6133898
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 13:30

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

E1105 SDG#: DE010-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000056 U	0.000056	0.00020	1
Wet Chemistry						
		EPA 300.0	mg/l	mg/l	mg/l	
01504	Fluoride	16984-48-8	0.080 U	0.080	0.10	1
		EPA 314.0	ug/l	ug/l	ug/l	
06019	Perchlorate	14797-73-0	0.70 U	0.70	2.0	1
		SW-846 7199	ug/l	ug/l	ug/l	
06467	Hexavalent Chromium (water)	18540-29-9	5.0 U	5.0	10.0	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103121AA	11/09/2010 00:31	Frank A Valla, Jr	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103122AA	11/08/2010 18:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103122AA	11/08/2010 18:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103121AA	11/09/2010 00:31	Frank A Valla, Jr	1

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

Sample Description: EB05-SA5C-110510 Grab Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5C-110510

LLI Sample # WW 6133898
LLI Group # 1220069
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 13:30

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

Submitted: 11/06/2010 10:20

Reported: 11/29/2010 17:35

E1105 SDG#: DE010-08EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10313WAI026	11/15/2010 02:51	Florida A Cimino	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10313WAG026	11/23/2010 01:55	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10313WAI026	11/10/2010 02:50	Roman Kuropatkin	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10313WAG026	11/09/2010 21:45	Karen L Beyer	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103130017A	11/12/2010 00:33	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103130017A	11/10/2010 02:50	Roman Kuropatkin	1
01743	Aluminum	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
08014	Boron	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
01750	Calcium	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
01754	Iron	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
01756	Lithium	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
07058	Manganese	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
01762	Potassium	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
01767	Sodium	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
08068	Strontium	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
07069	Tin	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
07070	Titanium	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103161848002	11/16/2010 18:24	John P Hook	1
06024	Antimony	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103166050002D	11/17/2010 10:51	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103166050002C	11/17/2010 10:51	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103166050002B	11/17/2010 10:51	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103166050002A	11/17/2010 10:51	Choon Y Tian	1
00259	Mercury	SW-846 7470A	2	103165713004	11/15/2010 08:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103161848002	11/14/2010 11:30	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103166050002	11/14/2010 12:07	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103165713004	11/12/2010 16:15	Nelli S Markaryan	1
01504	Fluoride	EPA 300.0	1	10321196903A	11/18/2010 04:45	Ashley M Adams	1
06019	Perchlorate	EPA 314.0	1	10322621701A	11/19/2010 10:37	William L Hamaker Jr	1
06467	Hexavalent Chromium (water)	SW-846 7199	1	10310621501A	11/06/2010 10:51	William L Hamaker Jr	1

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B103142AA	Sample number(s): 6133888, 6133890, 6133892-6133894, 6133896								
Acetone	6.7	U 6.7	8.0	ug/kg	128		32-209		
Benzene	0.10	U 0.10	4.0	ug/kg	92		80-120		
Bromobenzene	0.13	U 0.13	4.0	ug/kg	95		79-120		
Bromochloromethane	0.33	U 0.33	4.0	ug/kg	122		79-124		
Bromodichloromethane	0.08	U 0.08	4.0	ug/kg	86		78-120		
Bromoform	0.40	U 0.40	4.0	ug/kg	72		70-120		
Bromomethane	0.25	U 0.25	4.0	ug/kg	61		32-162		
2-Butanone	1.2	U 1.2	8.0	ug/kg	104		46-153		
n-Butylbenzene	0.12	U 0.12	4.0	ug/kg	98		72-120		
sec-Butylbenzene	0.06	U 0.06	4.0	ug/kg	99		75-120		
tert-Butylbenzene	0.16	U 0.16	4.0	ug/kg	94		75-120		
Carbon Tetrachloride	0.14	U 0.14	4.0	ug/kg	74		69-122		
Chlorobenzene	0.11	U 0.11	4.0	ug/kg	93		80-120		
Chloroethane	0.13	U 0.13	4.0	ug/kg	62		37-154		
2-Chloroethyl Vinyl Ether	0.30	U 0.30	4.0	ug/kg	98		43-146		
Chloroform	0.12	U 0.12	4.0	ug/kg	92		80-120		
Chloromethane	0.33	U 0.33	4.0	ug/kg	57		54-132		
2-Chlorotoluene	0.14	U 0.14	4.0	ug/kg	95		78-120		
4-Chlorotoluene	0.14	U 0.14	4.0	ug/kg	95		79-120		
Chlorotrifluoroethene	0.50	U 0.50	5.0	ug/kg	69		22-131		
1,2-Dibromo-3-chloropropane	0.70	U 0.70	4.0	ug/kg	90		58-120		
Dibromochloromethane	0.20	U 0.20	4.0	ug/kg	80		77-120		
1,2-Dibromoethane	0.17	U 0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U 0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09	U 0.09	4.0	ug/kg	96		79-120		
1,3-Dichlorobenzene	0.12	U 0.12	4.0	ug/kg	96		78-120		
1,4-Dichlorobenzene	0.16	U 0.16	4.0	ug/kg	95		79-120		
Dichlorodifluoromethane	0.12	U 0.12	4.0	ug/kg	37		20-120		
1,1-Dichloroethane	0.10	U 0.10	4.0	ug/kg	90		80-120		
1,2-Dichloroethane	0.15	U 0.15	4.0	ug/kg	92		71-129		
1,1-Dichloroethene	0.39	U 0.39	4.0	ug/kg	91		73-123		
cis-1,2-Dichloroethene	0.19	U 0.19	4.0	ug/kg	92		80-120		
trans-1,2-Dichloroethene	0.12	U 0.12	4.0	ug/kg	88		79-120		
1,2-Dichloropropane	0.17	U 0.17	4.0	ug/kg	91		80-120		
1,3-Dichloropropane	0.08	U 0.08	4.0	ug/kg	95		80-120		
2,2-Dichloropropane	0.17	U 0.17	4.0	ug/kg	79		72-123		
1,1-Dichloropropene	0.13	U 0.13	4.0	ug/kg	91		77-120		
cis-1,3-Dichloropropene	0.16	U 0.16	4.0	ug/kg	87		80-120		
trans-1,3-Dichloropropene	0.17	U 0.17	4.0	ug/kg	84		77-120		
Ethylbenzene	0.06	U 0.06	4.0	ug/kg	94		80-120		
Freon 113	0.11	U 0.11	4.0	ug/kg	96		61-126		
Freon 133a	0.50	U 0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U 0.14	4.0	ug/kg	97		57-120		
2-Hexanone	1.6	U 1.6	8.0	ug/kg	103		45-155		
Isopropylbenzene	0.06	U 0.06	4.0	ug/kg	93		76-120		
p-Isopropyltoluene	0.11	U 0.11	4.0	ug/kg	98		75-120		

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	93		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	101		61-134		
Methylene Chloride	0.59 J	0.24	4.0	ug/kg	112		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	100		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	92		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	81		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	101		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	93		77-120		
Toluene	0.13 J	0.08	4.0	ug/kg	92		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	96		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	95		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	83		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	94		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	92		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	72		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	102		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	99		79-120		
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	97		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	61		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	92		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	91		80-120		
Batch number: E103121AA Sample number(s): 6133888,6133890,6133892-6133894,6133896									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	95	102	70-130	6	30
Batch number: E103122AA Sample number(s): 6133897-6133898									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	95	103	60-132	8	30
Batch number: Y103121AA Sample number(s): 6133897-6133898									
Acetone	6 U	6.	20	ug/l	104	98	49-234	6	30
Benzene	0.5 U	0.5	5	ug/l	99	95	79-120	4	30
Bromobenzene	1 U	1.	5	ug/l	95	92	80-120	3	30
Bromochloromethane	1 U	1.	5	ug/l	90	85	80-120	5	30
Bromodichloromethane	1 U	1.	5	ug/l	88	87	80-120	1	30
Bromoform	1 U	1.	5	ug/l	93	92	61-120	1	30
Bromomethane	1 U	1.	5	ug/l	100	98	44-120	2	30
2-Butanone	3 U	3.	10	ug/l	109	104	66-151	4	30
n-Butylbenzene	1 U	1.	5	ug/l	98	94	74-120	5	30
sec-Butylbenzene	1 U	1.	5	ug/l	100	97	78-120	3	30
tert-Butylbenzene	1 U	1.	5	ug/l	93	89	80-120	4	30
Carbon Tetrachloride	1 U	1.	5	ug/l	82	80	75-123	2	30
Chlorobenzene	0.8 U	0.8	5	ug/l	91	90	80-120	2	30
Chloroethane	1 U	1.	5	ug/l	91	101	49-129	10	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	98	98	56-129	0	30
Chloroform	0.8 U	0.8	5	ug/l	96	94	77-122	2	30
Chloromethane	1 U	1.	5	ug/l	100	96	60-129	4	30
2-Chlorotoluene	1 U	1.	5	ug/l	96	95	80-120	1	30
4-Chlorotoluene	1 U	1.	5	ug/l	94	92	80-120	2	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	59	59	38-136	0	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	95	91	66-120	5	30
Dibromochloromethane	1 U	1.	5	ug/l	81	81	80-120	0	30
1,2-Dibromoethane	1 U	1.	5	ug/l	91	92	80-120	1	30
Dibromomethane	1 U	1.	5	ug/l	95	93	80-120	3	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	93	91	80-120	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	94	90	80-120	4	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	93	91	80-120	3	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	79	77	47-120	3	30
1,1-Dichloroethane	1 U	1.	5	ug/l	101	97	79-120	4	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dichloroethane	1 U	1.	5	ug/l	101	99	70-130	2	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	103	100	74-123	3	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	95	92	80-120	3	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	95	91	80-120	4	30
1,2-Dichloropropane	1 U	1.	5	ug/l	98	96	78-120	2	30
1,3-Dichloropropane	1 U	1.	5	ug/l	97	97	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	90	88	77-124	2	30
1,1-Dichloropropene	1 U	1.	5	ug/l	97	94	80-120	3	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	88	86	80-120	3	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	86	85	79-120	0	30
Ethylbenzene	0.8 U	0.8	5	ug/l	95	93	79-120	2	30
Freon 113	2 U	2.	10	ug/l	102	102	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	89	90	77-120	1	30
Hexachlorobutadiene	2 U	2.	5	ug/l	83	80	58-120	3	30
2-Hexanone	3 U	3.	10	ug/l	103	104	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	94	91	77-120	3	30
p-Isopropyltoluene	1 U	1.	5	ug/l	98	95	80-120	3	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	97	95	76-120	2	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	106	103	70-121	2	30
Methylene Chloride	2 U	2.	5	ug/l	107	104	80-120	3	30
n-Propylbenzene	1 U	1.	5	ug/l	105	101	80-120	3	30
Styrene	1 U	1.	5	ug/l	87	85	80-120	3	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	84	81	80-120	4	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	100	100	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	87	85	80-121	2	30
Toluene	0.7 U	0.7	5	ug/l	95	92	79-120	3	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	91	86	65-120	5	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	90	86	67-120	5	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	92	90	75-127	3	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	96	93	80-120	3	30
Trichloroethene	1 U	1.	5	ug/l	94	90	80-120	4	30
Trichlorofluoromethane	2 U	2.	5	ug/l	97	94	64-129	4	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	103	101	80-120	1	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	99	96	74-120	3	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	98	97	75-120	2	30
Vinyl Chloride	1 U	1.	5	ug/l	86	82	65-125	4	30
m+p-Xylene	0.8 U	0.8	5	ug/l	90	88	80-120	2	30
o-Xylene	0.8 U	0.8	5	ug/l	90	87	80-120	3	30

Batch number: 10312SLG026

Sample number(s): 6133888-6133894,6133896

Acenaphthene	17 U	17.	170	ug/kg	90		76-111		
Acenaphthylene	17 U	17.	170	ug/kg	92		75-122		
Aniline	170 U	170.	500	ug/kg	65		10-107		
Anthracene	17 U	17.	170	ug/kg	94		76-112		
Benzidine	1,200 U	1,200.	3,300	ug/kg	41		15-121		
Benzo(a)anthracene	17 U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17 U	17.	170	ug/kg	90		69-122		
Benzo(b)fluoranthene	17 U	17.	170	ug/kg	93		61-127		
Benzo(g,h,i)perylene	17 U	17.	170	ug/kg	83		65-122		
Benzo(k)fluoranthene	17 U	17.	170	ug/kg	87		67-125		
Benzoic acid	170 U	170.	500	ug/kg	79		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	96		79-117		
Butylbenzylphthalate	17 U	17.	170	ug/kg	99		75-115		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Di-n-butylphthalate	17	U	17.	170	ug/kg	94	79-112		
Carbazole	17	U	17.	170	ug/kg	94	77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97	74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	46	10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89	70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	81	70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	80	68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	89	67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	93	72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95	79-110		
Chrysene	17	U	17.	170	ug/kg	92	76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	84	70-128		
Dibenzofuran	17	U	17.	170	ug/kg	93	79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85	79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82	70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86	74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	52	38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98	75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95	76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97	72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100	70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	93	77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	79	53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	72	37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96	73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98	79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	94	77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96	75-117		
Fluoranthene	17	U	17.	170	ug/kg	92	78-116		
Fluorene	17	U	17.	170	ug/kg	92	75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	95	78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91	70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	60	46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85	68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	82	64-119		
Isophorone	17	U	17.	170	ug/kg	87	69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	92	74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	87	76-105		
2-Methylphenol	33	U	33.	170	ug/kg	93	66-110		
4-Methylphenol	33	U	33.	170	ug/kg	97	66-117		
Naphthalene	17	U	17.	170	ug/kg	89	73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	98	78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89	62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71	49-98		
Nitrobenzene	17	U	17.	170	ug/kg	88	71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	96	81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88	56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	82	63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	84	60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99	67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	96	68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	84	35-106		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Phenanthrene	17 U	17.	170	ug/kg	93		77-113		
Phenol	17 U	17.	170	ug/kg	91		58-112		
Pyrene	17 U	17.	170	ug/kg	105		75-115		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33 U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	97		78-111		

Batch number: 10312SLH026 Sample number(s): 6133888-6133894,6133896

Acenaphthene	0.67 U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	85		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	88		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	89		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	96		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	97		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	89		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	125		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	109		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	96		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	100		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	92		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	97		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	125		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	79		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	91		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	99		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	81		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	79		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	123		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	119		56-121		

Batch number: 10313WAG026

Sample number(s): 6133898

Acenaphthene	0.010 U	0.010	0.050	ug/l	94	96	74-109	2	30
Acenaphthylene	0.010 U	0.010	0.050	ug/l	90	88	70-110	2	30
Anthracene	0.010 U	0.010	0.050	ug/l	96	95	66-111	1	30
Benzo(a)anthracene	0.010 U	0.010	0.050	ug/l	98	98	72-114	0	30
Benzo(a)pyrene	0.010 U	0.010	0.050	ug/l	93	93	64-115	0	30
Benzo(b)fluoranthene	0.010 U	0.010	0.050	ug/l	103	104	69-123	2	30
Benzo(g,h,i)perylene	0.010 U	0.010	0.050	ug/l	85	86	68-125	2	30
Benzo(k)fluoranthene	0.010 U	0.010	0.050	ug/l	92	90	72-122	3	30
Butylbenzylphthalate	0.050 U	0.050	1.0	ug/l	83	88	70-130	5	30
Di-n-butylphthalate	0.050 U	0.050	1.0	ug/l	95	98	70-130	2	30
Chrysene	0.010 U	0.010	0.050	ug/l	99	98	76-116	0	30
Dibenz(a,h)anthracene	0.010 U	0.010	0.050	ug/l	85	86	71-125	2	30
Diethylphthalate	0.066 J	0.050	1.0	ug/l	96	98	70-130	2	30
Dimethylphthalate	0.050 U	0.050	1.0	ug/l	74	79	70-130	7	30
Bis(2-Ethylhexyl)phthalate	0.071 J	0.050	1.0	ug/l	105	110	70-130	5	30
Fluoranthene	0.010 U	0.010	0.050	ug/l	96	94	75-116	2	30
Fluorene	0.010 U	0.010	0.050	ug/l	99	97	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010 U	0.010	0.050	ug/l	86	87	69-124	1	30
1-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	98	97	71-117	1	30
2-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	85	85	75-115	1	30
Naphthalene	0.010 U	0.010	0.050	ug/l	91	91	72-109	0	30
N-Nitrosodimethylamine	0.010 U	0.010	0.050	ug/l	71	66*	70-130	7	30
Di-n-octylphthalate	0.050 U	0.050	1.0	ug/l	114	157*	70-130	32*	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Phenanthrene	0.010 U	0.010	0.050	ug/l	97	96	76-111	2	30
Pyrene	0.010 U	0.010	0.050	ug/l	102	103	69-118	0	30

Batch number: 10313WAI026	Sample number(s): 6133898									
Aniline	1	U	1.	5	ug/l	65	70	49-101	8	30
Benzidine	20	U	20.	60	ug/l	60	68	20-109	12	30
Benzoic acid	6	U	6.	15	ug/l	24	36	10-69	40*	30
Benzyl alcohol	5	U	5.	15	ug/l	92	94	66-97	3	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	106	107	82-117	1	30
Carbazole	1	U	1.	5	ug/l	105	105	81-114	0	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	98	96	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	56	58	42-124	4	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	95	94	74-124	1	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	90	90	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	84	84	62-127	0	30
2-Chloronaphthalene	2	U	2.	5	ug/l	104	116	54-132	11	30
2-Chlorophenol	1	U	1.	5	ug/l	99	99	77-108	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	101	100	82-111	1	30
Dibenzofuran	1	U	1.	5	ug/l	98	101	83-108	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	93	67-108	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	92	93	63-110	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	92	65-113	1	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	74	74	49-111	0	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	103	102	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	100	101	72-110	2	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	100	100	70-130	0	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	97	93	78-119	5	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	84	89	64-120	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	94	104	81-115	10	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	103	103	85-115	0	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	104	103	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	108	103	81-118	5	30
Hexachlorobutadiene	1	U	1.	5	ug/l	98	101	57-124	4	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	84	84	10-118	0	30
Hexachloroethane	1	U	1.	5	ug/l	91	89	52-113	2	30
Isophorone	1	U	1.	5	ug/l	95	94	74-117	1	30
2-Methylphenol	1	U	1.	5	ug/l	90	89	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	86	87	61-103	1	30
2-Nitroaniline	1	U	1.	5	ug/l	103	105	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	94	100	74-113	6	30
4-Nitroaniline	1	U	1.	5	ug/l	74	75	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	97	98	75-109	1	30
2-Nitrophenol	1	U	1.	5	ug/l	106	107	86-120	1	30
4-Nitrophenol	10	U	10.	30	ug/l	54	58	16-78	8	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	88	89	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	105	105	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	107	103	53-110	4	30
Phenol	1	U	1.	5	ug/l	49	50	29-67	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	97	71-112	1	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	104	104	79-107	0	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	106	105	81-113	0	30

Batch number: 103140018A	Sample number(s): 6133890									
Perchlorate in Soil LC/MS/MS	2.1	U	2.1	5.0	ug/kg	95		70-130		

Batch number: 103130017A	Sample number(s): 6133898									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	50*	56*	75-125	11	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Aroclor 5460	0.10 U	0.10	0.50	ug/l					
PCB-1016	0.10 U	0.10	0.50	ug/l	84	84	68-119	0	30
PCB-1221	0.10 U	0.10	0.50	ug/l					
PCB-1232	0.20 U	0.20	0.50	ug/l					
PCB-1242	0.10 U	0.10	0.50	ug/l					
PCB-1248	0.10 U	0.10	0.50	ug/l					
PCB-1254	0.10 U	0.10	0.50	ug/l					
PCB-1260	0.10 U	0.10	0.50	ug/l	86	84	68-121	2	30
PCB-1262	0.20 U	0.20	0.50	ug/l					
PCB-1268	0.16 U	0.16	0.50	ug/l					
Batch number: 103160020A Sample number(s): 6133888-6133894,6133896									
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	51*	57*	75-125	10	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	73		72-120		
PCB-1221	0.50 U	0.50	1.7	ug/kg					
PCB-1232	0.52 U	0.52	1.7	ug/kg					
PCB-1242	0.50 U	0.50	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.33 U	0.33	1.7	ug/kg	115		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					
Batch number: 103131026002A Sample number(s): 6133888-6133896									
Antimony	0.0571 U	0.0571	0.190	mg/kg	105		11-208		
Arsenic	0.0571 U	0.0571	0.381	mg/kg	106		80-120		
Beryllium	0.0152 U	0.0152	0.0952	mg/kg	98		82-118		
Cadmium	0.0343 U	0.0343	0.0952	mg/kg	100		82-118		
Chromium	0.114 U	0.114	0.381	mg/kg	111		80-120		
Cobalt	0.0190 U	0.0190	0.0952	mg/kg	92		82-118		
Copper	0.218 J	0.0629	0.381	mg/kg	103		80-120		
Lead	0.0099 U	0.0099	0.190	mg/kg	99		80-120		
Nickel	0.0952 U	0.0952	0.381	mg/kg	101		80-120		
Silver	0.0114 U	0.0114	0.0952	mg/kg	105		66-134		
Thallium	0.0286 U	0.0286	0.0952	mg/kg	102		81-119		
Vanadium	0.0210 U	0.0210	0.0952	mg/kg	99		90-110		
Zinc	0.533 U	0.533	2.86	mg/kg	102		78-122		
Batch number: 103131026002B Sample number(s): 6133888-6133896									
Selenium	0.0381 U	0.0381	0.381	mg/kg	100		79-122		
Batch number: 103131026002C Sample number(s): 6133888-6133896									
Molybdenum	0.0476 U	0.0476	0.0952	mg/kg	106		78-122		
Batch number: 103131026002D Sample number(s): 6133888-6133896									
Barium	0.103 U	0.103	0.381	mg/kg	110		79-121		
Batch number: 103135708001 Sample number(s): 6133888-6133896									
Aluminum	5.77 J	4.84	19.2	mg/kg	101		61-110		
Boron	0.856 U	0.856	4.81	mg/kg	94		78-110		
Calcium	11.9 J	5.89	19.2	mg/kg	93		88-110		
Iron	4.53 U	4.53	19.2	mg/kg	96		61-110		
Lithium	0.21 U	0.21	1.9	mg/kg	101		80-120		
Magnesium	2.44 U	2.44	9.62	mg/kg	98		82-110		
Manganese	0.0750 U	0.0750	0.481	mg/kg	99		81-119		
Phosphorus	1.34 J	0.538	9.62	mg/kg	103		80-120		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Potassium	17.3 U	17.3	48.1	mg/kg	98		78-110		
Sodium	35.9 U	35.9	96.2	mg/kg	95		87-110		
Strontium	0.0606 J	0.0596	0.481	mg/kg	102		79-121		
Tin	1.11 J	0.962	9.62	mg/kg	100		90-114		
Titanium	0.365 U	0.365	0.962	mg/kg	97		85-115		
Zirconium	0.808 U	0.808	4.81	mg/kg	100		80-120		
Batch number: 103135711003 Sample number(s): 6133888-6133896									
Mercury	0.0028 U	0.0028	0.0974	mg/kg	105		88-123		
Batch number: 103161848002 Sample number(s): 6133898									
Aluminum	0.0834 U	0.0834	0.200	mg/l	108	105	90-112	3	20
Boron	0.0138 U	0.0138	0.0500	mg/l	94	95	90-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	104	102	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	103	102	90-112	1	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	102	99	80-120	2	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	102	99	89-110	3	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	100	100	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	99	99	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	103	100	85-115	3	20
Sodium	0.433 U	0.433	1.00	mg/l	103	101	87-114	2	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	102	101	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	98	98	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	102	101	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	103	101	80-120	2	20
Batch number: 103165713004 Sample number(s): 6133898									
Mercury	0.000056 U	0.00005	0.00020	mg/l	92	94	80-120	2	20
Batch number: 103166050002A Sample number(s): 6133898									
Antimony	0.00030 U	0.00030	0.0010	mg/l	103	97	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	103	99	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	105	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	103	104	90-114	0	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	100	102	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	95	94	80-120	0	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	102	90-113	0	20
Lead	0.000052 U	0.00005	0.0010	mg/l	101	99	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	103	90-113	0	20
Silver	0.000080 U	0.00008	0.00050	mg/l	104	104	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	104	101	89-116	2	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	98	99	80-120	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	101	103	80-120	3	20
Batch number: 103166050002B Sample number(s): 6133898									
Selenium	0.00025 U	0.00025	0.0020	mg/l	101	102	85-114	1	20
Batch number: 103166050002C Sample number(s): 6133898									
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	103	100	80-120	3	20
Batch number: 103166050002D Sample number(s): 6133898									
Barium	0.00038 U	0.00038	0.0020	mg/l	101	104	88-113	3	20
Batch number: 10310621501A Sample number(s): 6133898									
Hexavalent Chromium (water)	5.0 U	5.0	10.0	ug/l	97	96	90-110	1	20

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCS D Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10319319201B Fluoride by IC (solid)	Sample number(s): 6133888-6133893,6133895-6133896 0.80 U 0.80	1.0	mg/kg	108			90-110		
Batch number: 10320243201A Hexavalent Chromium by IC	Sample number(s): 6133888-6133893,6133895-6133896 0.20 U 0.20	1.0	mg/kg	90			80-120		
Batch number: 10321196903A Fluoride	Sample number(s): 6133898 0.080 U 0.080	0.10	mg/l	107	107		90-110	0	20
Batch number: 10322621701A Perchlorate	Sample number(s): 6133898 0.70 U 0.70	2.0	ug/l	99	102		84-115	2	20
Batch number: 10323323201A Perchlorate in Soil	Sample number(s): 6133888-6133890 9.0 U 9.0	30.0	ug/kg	108			85-115		
Batch number: 10323323201B Perchlorate in Soil	Sample number(s): 6133891-6133893,6133895-6133896 9.0 U 9.0	30.0	ug/kg	108			85-115		
Batch number: 10312039401A pH	Sample number(s): 6133888-6133892,6133895-6133896 100						95-105		
Batch number: 10312182103A Oxidation Reduction Potential	Sample number(s): 6133888-6133892,6133895-6133896 98						98-102		
Batch number: 10314162401A CDM Moisture Duplicate Moisture CDM Moisture CDM	Sample number(s): 6133888-6133896				100 100 100		80-120 80-120 80-120		

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103142AA	Sample number(s): 6133888,6133890,6133892-6133894,6133896 UNSPK: 6133892								
Acetone	157	150	15-210	1	30				
Benzene	104	98	55-143	2	30				
Bromobenzene	109	100	43-139	5	30				
Bromochloromethane	142*	138*	60-137	1	30				
Bromodichloromethane	96	93	53-136	1	30				
Bromoform	75	74	38-124	2	30				
Bromomethane	83	81	42-168	2	30				
2-Butanone	116	108	37-163	3	30				
n-Butylbenzene	114	101	30-146	9	30				
sec-Butylbenzene	118	105	33-157	7	30				
tert-Butylbenzene	112	100	41-152	7	30				
Carbon Tetrachloride	84	83	45-153	2	30				
Chlorobenzene	105	98	49-135	3	30				
Chloroethane	85	83	39-152	1	30				
2-Chloroethyl Vinyl Ether	102	102	32-139	4	30				
Chloroform	104	100	61-142	1	30				

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Group Number: 1220069

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Chloromethane	93	94	51-163	4	30				
2-Chlorotoluene	109	100	42-146	5	30				
4-Chlorotoluene	110	99	39-145	7	30				
Chlorotrifluoroethene	72	72	70-130	1	30				
1,2-Dibromo-3-chloropropane	88	82	30-139	4	30				
Dibromochloromethane	88	85	51-128	1	30				
1,2-Dibromoethane	103	96	54-129	3	30				
Dibromomethane	104	98	57-130	2	30				
1,2-Dichlorobenzene	106	96	36-133	7	30				
1,3-Dichlorobenzene	107	97	34-134	6	30				
1,4-Dichlorobenzene	107	96	35-136	7	30				
Dichlorodifluoromethane	87	87	26-151	4	30				
1,1-Dichloroethane	100	95	63-142	1	30				
1,2-Dichloroethane	101	97	68-131	1	30				
1,1-Dichloroethene	90	84	61-149	2	30				
cis-1,2-Dichloroethene	104	98	60-136	2	30				
trans-1,2-Dichloroethene	95	90	59-142	1	30				
1,2-Dichloropropane	103	99	62-135	0	30				
1,3-Dichloropropane	106	99	58-129	3	30				
2,2-Dichloropropane	87	85	53-147	2	30				
1,1-Dichloropropene	105	100	54-145	1	30				
cis-1,3-Dichloropropene	97	94	51-131	0	30				
trans-1,3-Dichloropropene	91	87	49-129	0	30				
Ethylbenzene	108	100	44-141	4	30				
Freon 113	102	98	56-156	0	30				
Freon 133a	99	99	70-130	1	30				
Hexachlorobutadiene	110	96	10-155	9	30				
2-Hexanone	108	102	32-160	2	30				
Isopropylbenzene	108	100	38-144	4	30				
p-Isopropyltoluene	114	102	29-152	7	30				
Methyl Tertiary Butyl Ether	96	92	55-129	1	30				
4-Methyl-2-pentanone	100	94	46-139	3	30				
Methylene Chloride	94	95	61-141	5	30				
n-Propylbenzene	116	106	39-157	6	30				
Styrene	105	97	35-134	4	30				
1,1,1,2-Tetrachloroethane	89	87	52-130	2	30				
1,1,2,2-Tetrachloroethane	105	96	40-152	6	30				
Tetrachloroethene	105	97	42-149	4	30				
Toluene	106	99	50-146	3	30				
1,2,3-Trichlorobenzene	98	90	10-140	5	30				
1,2,4-Trichlorobenzene	99	90	10-136	6	30				
1,1,1-Trichloroethane	96	91	64-142	2	30				
1,1,2-Trichloroethane	103	97	54-139	2	30				
Trichloroethene	106	99	53-144	3	30				
Trichlorofluoromethane	100	100	47-163	4	30				
1,2,3-Trichloropropane	109	101	45-154	4	30				
1,2,4-Trimethylbenzene	112	101	37-149	6	30				
1,3,5-Trimethylbenzene	111	101	38-150	6	30				
Vinyl Chloride	94	94	50-154	4	30				
m+p-Xylene	105	98	44-137	3	30				
o-Xylene	104	96	42-137	4	30				

Batch number: E103121AA

Sample number(s): 6133888,6133890,6133892-6133894,6133896 UNSPK: 6133892

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

Sample Matrix Quality Control

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 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,4-Dioxane	93	94	70-130	15	30			
Batch number: E103122AA	Sample number(s): 6133897-6133898 UNSPK: P133134							
1,4-Dioxane	103		50-150					
Batch number: 10312SLG026	Sample number(s): 6133888-6133894,6133896 UNSPK: 6133892							
Acenaphthene	86	88	75-115	2	30			
Acenaphthylene	88	90	49-126	3	30			
Aniline	56	64	14-114	13	30			
Anthracene	92	91	75-115	2	30			
Benzydine	27*	40	35-141	38*	30			
Benzo(a)anthracene	93	94	65-122	1	30			
Benzo(a)pyrene	86	86	57-126	0	30			
Benzo(b)fluoranthene	81	89	59-125	10	30			
Benzo(g,h,i)perylene	86	86	59-127	1	30			
Benzo(k)fluoranthene	90	82	56-132	9	30			
Benzoic acid	31	61	10-173	64*	30			
Benzyl alcohol	91	94	55-123	3	30			
4-Bromophenyl-phenylether	99	97	67-129	1	30			
Butylbenzylphthalate	101	100	73-134	1	30			
Di-n-butylphthalate	90	90	67-123	0	30			
Carbazole	90	90	64-120	0	30			
4-Chloro-3-methylphenol	88	88	53-130	0	30			
4-Chloroaniline	49	54	23-95	10	30			
bis(2-Chloroethoxy)methane	82	86	54-117	6	30			
bis(2-Chloroethyl)ether	83	86	60-116	3	30			
bis(2-Chloroisopropyl)ether	79	81	55-142	2	30			
2-Chloronaphthalene	87	88	50-141	1	30			
2-Chlorophenol	91	91	73-121	1	30			
4-Chlorophenyl-phenylether	89	90	64-119	2	30			
Chrysene	90	88	62-128	3	30			
Dibenz(a,h)anthracene	85	88	65-125	3	30			
Dibenzofuran	87	88	71-112	1	30			
1,2-Dichlorobenzene	86	88	66-108	2	30			
1,3-Dichlorobenzene	83	84	63-109	1	30			
1,4-Dichlorobenzene	84	85	53-113	2	30			
3,3'-Dichlorobenzidine	48	50	25-123	3	30			
2,4-Dichlorophenol	92	93	78-117	2	30			
Diethylphthalate	86	87	66-118	2	30			
2,4-Dimethylphenol	88	92	56-130	4	30			
3,5-Dimethylphenol	93	94	70-130	1	30			
Dimethylphthalate	86	88	64-118	1	30			
4,6-Dinitro-2-methylphenol	44	61	10-148	31*	30			
2,4-Dinitrophenol	24	39	20-143	47*	30			
2,4-Dinitrotoluene	85	88	57-114	4	30			
2,6-Dinitrotoluene	89	91	69-123	1	30			
1,2-Diphenylhydrazine	95	94	71-129	1	30			
bis(2-Ethylhexyl)phthalate	97	94	63-122	3	30			
Fluoranthene	86	86	59-122	1	30			
Fluorene	86	87	60-125	1	30			
Hexachlorobenzene	94	97	61-111	2	30			
Hexachlorobutadiene	88	90	62-120	3	30			
Hexachlorocyclopentadiene	48	51	10-153	6	30			

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Hexachloroethane	78	82	57-109	4	30				
Indeno(1,2,3-cd)pyrene	85	84	61-126	1	30				
Isophorone	83	84	51-118	2	30				
1-Methylnaphthalene	88	92	73-112	4	30				
2-Methylnaphthalene	82	86	76-114	5	30				
2-Methylphenol	89	92	47-142	3	30				
4-Methylphenol	91	97	55-126	6	30				
Naphthalene	87	88	72-116	1	30				
2-Nitroaniline	89	90	67-125	1	30				
3-Nitroaniline	82	85	59-122	3	30				
4-Nitroaniline	62	65	52-112	5	30				
Nitrobenzene	85	87	51-114	3	30				
2-Nitrophenol	91	96	74-115	5	30				
4-Nitrophenol	76	76	39-133	1	30				
N-Nitroso-di-n-propylamine	79	82	60-116	3	30				
N-Nitrosodimethylamine	84	83	47-116	1	30				
N-Nitrosodiphenylamine	95	98	86-145	3	30				
Di-n-octylphthalate	95	94	56-126	1	30				
Pentachlorophenol	67	74	17-149	11	30				
Phenanthrene	92	90	65-125	2	30				
Phenol	90	91	58-126	1	30				
Pyrene	107	103	51-151	4	30				
1,2,4-Trichlorobenzene	85	90	72-115	6	30				
2,4,5-Trichlorophenol	92	92	34-139	1	30				
2,4,6-Trichlorophenol	91	94	49-140	3	30				
Batch number: 10312SLH026 Sample number(s): 6133888-6133894,6133896 UNSPK: 6133892									
Acenaphthene	96	99	63-105	3	30				
Acenaphthylene	88	88	55-126	0	30				
Anthracene	88	92	46-136	4	30				
Benzo(a)anthracene	93	94	39-144	1	30				
Benzo(a)pyrene	84	88	34-156	5	30				
Benzo(b)fluoranthene	83	83	43-155	1	30				
Benzo(g,h,i)perylene	98	100	33-141	2	30				
Benzo(k)fluoranthene	84	86	42-144	2	30				
Butylbenzylphthalate	113	112	73-140	1	30				
Di-n-butylphthalate	110	114	78-160	3	30				
Chrysene	95	96	29-156	1	30				
Dibenz(a,h)anthracene	96	100	41-130	4	30				
Diethylphthalate	105	105	87-131	0	30				
Dimethylphthalate	104	102	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	86	101	39-167	12	30				
Fluoranthene	75	83	26-166	11	30				
Fluorene	90	89	45-121	0	30				
Indeno(1,2,3-cd)pyrene	96	98	21-143	3	30				
1-Methylnaphthalene	92	92	72-123	1	30				
2-Methylnaphthalene	82	83	28-121	2	30				
Naphthalene	88	89	61-102	1	30				
N-Nitrosodimethylamine	90	98	48-113	9	30				
Di-n-octylphthalate	113	105	40-192	7	30				
Phenanthrene	91	93	12-165	2	30				
Pyrene	96	100	15-153	4	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>	
Batch number: 103140018A Perchlorate in Soil LC/MS/MS	96	98	70-130	2	30				
Sample number(s): 6133890 UNSPK: P132121									
Batch number: 103160020A PCB-1016 PCB-1260	79 118	93 137	29-146 39-149	16 15	50 50				
Sample number(s): 6133888-6133894,6133896 UNSPK: 6133892									
Batch number: 103131026002A Antimony Arsenic Beryllium Cadmium Chromium Cobalt Copper Lead Nickel Silver Thallium Vanadium Zinc	113 62* 79 143* 70* 101 109 -15 (2) 80 146* 106 -20 (2) 26 (2)	80 176* 103 135* 88 110 119 132 (2) 117 147* 132* 103 (2) 68 (2)	75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125	26* 24* 12 3 4 9 6 32* 12 3 13 18 5	20 20 20 20 20 20 20 20 20 20 20 20 20	0.234 7.18 1.05 0.186 36.6 10.4 9.63 12.1 21.0 0.107 0.438 62.6 76.6	0.275 7.12 1.01 0.173 32.2 6.93 11.1 9.98 17.6 0.0897 J 0.354 55.7 67.0	16 (1) 1 4 7 (1) 13 40* 14 19 17 18 (1) 21* (1) 12 13	20 20 20 20 20 20 20 20 20 20 20 20 20
Batch number: 103131026002B Selenium	122	121	75-125	2	20	0.0708 J	0.0915 J	26* (1)	20
Batch number: 103131026002C Molybdenum	146*	142*	75-125	1	20	0.450	0.544	19 (1)	20
Batch number: 103131026002D Barium	-34 (2)	-4 (2)	75-125	2	20	150	157	5	20
Batch number: 103135708001 Aluminum Boron Calcium Iron Lithium Magnesium Manganese Phosphorus Potassium Sodium Strontium Tin Titanium Zirconium	-549 92 101 (2) -3546 95 140 (2) -558 53* 77 95 97 92 -58 (2) 95	764 (2) 94 91 (2) -3630 98 162 (2) -355 40* 105 97 98 91 420 (2) 98	75-125 84-115 75-125 75-125 82-114 75-125 75-125 75-125 75-125 75-125 75-115 80-110 75-125 75-125	10 4 1 1 4 1 33* 6 11 4 2 0 38* 5	20 20 20 20 20 20 20 20 20 20 20 20 20 20	24,600 8.91 3,570 25,600 30.1 4,720 509 142 1,780 115 30.9 2.25 J 1,070 4.33 J	22,900 7.93 3,410 24,400 27.8 4,660 696 125 1,660 114 30.1 2.23 J 1,100 5.10	7 12 (1) 5 4 8 1 31* 12 7 1 (1) 3 1 (1) 3 16 (1)	20 20 20 20 20 20 20 20 20 20 20 20 20 20
Batch number: 103135711003 Mercury	109	102	65-135	3	20	0.0028 U	0.0030 J	200* (1)	20
Sample number(s): 6133888-6133896 UNSPK: 6133892 BKG: 6133892									

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Quality Control Summary

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 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u>	<u>RPD</u> <u>Max</u>
Batch number: 10319319201B Fluoride by IC (solid)	83		80-120		1.8	1.6	16 (1)		20
Batch number: 10320243201A Hexavalent Chromium by IC	88		75-125		0.24 J	0.47 J	64* (1)		20
Batch number: 10323323201A Perchlorate in Soil	116		80-120		9.0 U	9.0 U	0 (1)		15
Batch number: 10323323201B Perchlorate in Soil	116		80-120		12.4 J	9.0 U	200* (1)		15
Batch number: 10312039401A pH					6.91	6.92	0		1
Batch number: 10312182103A Oxidation Reduction Potential					535	534	0		6
Batch number: 10314162401A CDM Moisture Duplicate Moisture CDM Moisture CDM					8.9 8.9 8.9	9.4 9.4 9.4	6 6 6		20 20 20

Surrogate Quality Control

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

 Analysis Name: VOCs in Soil 8260B
 Batch number: B103142AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6133888	100	98	99	96
6133890	101	106	98	95
6133892	102	106	99	96
6133893	100	102	101	98
6133894	100	106	100	103
6133896	100	101	99	95
Blank	100	103	98	97
LCS	101	105	99	98
MS	100	102	101	98
MSD	100	106	100	103
Limits:	80-120	80-120	81-117	74-121

 Analysis Name: 1,4-Dioxane by Isotope DL SIM
 Batch number: E103121AA
 Toluene-d8

6133888	98
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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

Surrogate Quality Control

 6133890 98
 6133892 98
 6133893 98
 6133894 98
 6133896 98
 Blank 99
 LCS 98
 LCSD 98
 MS 98
 MSD 98

Limits: 70-130

 Analysis Name: 1,4-Dioxane by Isotope Dil SIM
 Batch number: E103122AA
 Toluene-d8

 6133897 100
 6133898 100
 Blank 99
 LCS 100
 LCSD 99
 MS 100

Limits: 80-120

 Analysis Name: VOCs in Water 8260B
 Batch number: Y103121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6133897	100	100	99	96
6133898	99	100	99	96
Blank	97	99	100	99
LCS	99	101	101	99
LCSD	98	100	101	100

Limits: 86-118 80-120 88-110 86-115

Analysis Name: TCL SW846 Semivolatiles Soil

Batch number: 10312SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6133888	88	92	89	82	91	89
6133889	85	87	83	79	88	85
6133890	86	89	83	80	87	85
6133891	87	90	88	82	89	90
6133892	81	83	75	74	84	95
6133893	83	85	79	77	83	92
6133894	85	87	82	79	84	88
6133896	86	85	79	76	82	87
Blank	84	89	96	84	87	90
LCS	89	91	96	84	89	92
MS	83	85	79	77	83	92
MSD	85	87	82	79	84	88

Limits: 25-120 25-130 35-130 40-130 45-130 45-135

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

Surrogate Quality Control

Analysis Name: Selected SVOAs in soil by SIM

Batch number: 10312SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6133888	95	79	92
6133889	100	81	93
6133890	86	70	98
6133891	91	75	87
6133892	92	72	79
6133893	96	86	103
6133894	96	83	96
6133896	99	82	98
Blank	98	82	97
LCS	92	78	103
MS	96	86	103
MSD	96	83	96

Limits: 40-130 45-130 45-135

Analysis Name: Selected SVOAs in water by SIM

Batch number: 10313WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6133898	91	84	92
Blank	83	86	95
LCS	88	85	92
LCSD	85	83	93

Limits: 40-130 45-130 45-135

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 10313WAI026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6133898	59	37	94	87	94	88
Blank	54	33	91	82	88	80
LCS	67	43	99	92	95	90
LCSD	67	44	97	91	96	91

Limits: 20-130 20-120 30-130 40-130 45-130 45-135

Analysis Name: PCBs & PCTs in Water

Batch number: 103130017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6133898	94	78
Blank	97	88
LCS	103	92
LCSD	99	80

Limits: 30-150 45-120

Analysis Name: PCBs & PCTs in Soil

Batch number: 103160020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6133888	83	109

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 11/29/10 at 05:35 PM

Group Number: 1220069

Surrogate Quality Control

6133889	78	117
6133890	80	104
6133891	82	105
6133892	85	105
6133893	86	106
6133894	89	111
6133896	83	116
Blank	85	113
LCS	87	117
LCSD	82	101
MS	86	106
MSD	89	111

Limits: 53-139 45-120

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 06, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/09/2010
Group Number: 1220276
SDG: DE011
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-109-SA5C-SB-4.0-5.0 Soil	6134958
SL-109-SA5C-SB-9.0-10.0 Soil	6134959
SL-107-SA5C-SB-4.0-5.0 Soil	6134960
SL-107-SA5C-SB-9.0-10.0 Soil	6134961
SL-106-SA5C-SB-4.0-5.0 Soil	6134962
SL-106-SA5C-SB-9.0-10.0 Soil	6134963
SL-108-SA5C-SB-4.0-5.0 Soil	6134964
SL-108-SA5C-SB-9.0-10.0 Soil	6134965
TB-110810 Water	6134966

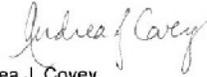
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program
COPY TO
1 COPY TO Data Package Group

Attn: Todd Burgess

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

Respectfully Submitted,



Andrea J. Covey
Senior Specialist

Sample Description: SL-109-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-4.0-5.0

LLI Sample # SW 6134958
 LLI Group # 1220276
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10945 SDG#: DE011-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1 U	6.1	7.3	0.79
06192	Benzene	71-43-2	0.09 U	0.09	3.6	0.79
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.6	0.79
06192	Bromochloromethane	74-97-5	0.30 U	0.30	3.6	0.79
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.6	0.79
06192	Bromoform	75-25-2	0.36 U	0.36	3.6	0.79
06192	Bromomethane	74-83-9	0.23 U	0.23	3.6	0.79
06192	2-Butanone	78-93-3	1.1 U	1.1	7.3	0.79
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.6	0.79
06192	sec-Butylbenzene	135-98-8	0.05 U	0.05	3.6	0.79
06192	tert-Butylbenzene	98-06-6	0.14 U	0.14	3.6	0.79
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.6	0.79
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.6	0.79
06192	Chloroethane	75-00-3	0.12 U	0.12	3.6	0.79
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27 U	0.27	3.6	0.79
06192	Chloroform	67-66-3	0.11 U	0.11	3.6	0.79
06192	Chloromethane	74-87-3	0.30 U	0.30	3.6	0.79
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.6	0.79
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.6	0.79
06192	Chlorotrifluoroethene	79-38-9	0.45 U	0.45	4.5	0.79
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.63 U	0.63	3.6	0.79
06192	Dibromochloromethane	124-48-1	0.18 U	0.18	3.6	0.79
06192	1,2-Dibromoethane	106-93-4	0.15 U	0.15	3.6	0.79
06192	Dibromomethane	74-95-3	0.22 U	0.22	3.6	0.79
06192	1,2-Dichlorobenzene	95-50-1	0.08 U	0.08	3.6	0.79
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.6	0.79
06192	1,4-Dichlorobenzene	106-46-7	0.14 U	0.14	3.6	0.79
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.6	0.79
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.6	0.79
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.6	0.79
06192	1,1-Dichloroethene	75-35-4	0.35 U	0.35	3.6	0.79
06192	cis-1,2-Dichloroethene	156-59-2	0.17 U	0.17	3.6	0.79
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.6	0.79
06192	1,2-Dichloropropane	78-87-5	0.15 U	0.15	3.6	0.79
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.6	0.79
06192	2,2-Dichloropropane	594-20-7	0.15 U	0.15	3.6	0.79
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.6	0.79
06192	cis-1,3-Dichloropropene	10061-01-5	0.14 U	0.14	3.6	0.79
06192	trans-1,3-Dichloropropene	10061-02-6	0.15 U	0.15	3.6	0.79
06192	Ethylbenzene	100-41-4	0.05 U	0.05	3.6	0.79
06192	Freon 113	76-13-1	0.10 U	0.10	3.6	0.79
06192	Freon 133a	75-88-7	0.45 U	0.45	4.5	0.79
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.6	0.79
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.3	0.79
06192	Isopropylbenzene	98-82-8	0.05 U	0.05	3.6	0.79
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.6	0.79
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19 U	0.19	3.6	0.79
06192	4-Methyl-2-pentanone	108-10-1	0.35 U	0.35	7.3	0.79
06192	Methylene Chloride	75-09-2	0.22 U	0.22	3.6	0.79
06192	n-Propylbenzene	103-65-1	0.06 U	0.06	3.6	0.79

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

Sample Description: SL-109-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-4.0-5.0

LLI Sample # SW 6134958
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10945 SDG#: DE011-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.09 U	0.09 ug/kg	3.6 ug/kg	0.79
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10 ug/kg	3.6 ug/kg	0.79
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21 U	0.21 ug/kg	3.6 ug/kg	0.79
06192	Tetrachloroethene	127-18-4	0.18 U	0.18 ug/kg	3.6 ug/kg	0.79
06192	Toluene	108-88-3	0.07 U	0.07 ug/kg	3.6 ug/kg	0.79
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13 ug/kg	3.6 ug/kg	0.79
06192	1,2,4-Trichlorobenzene	120-82-1	0.16 U	0.16 ug/kg	3.6 ug/kg	0.79
06192	1,1,1-Trichloroethane	71-55-6	0.18 U	0.18 ug/kg	3.6 ug/kg	0.79
06192	1,1,2-Trichloroethane	79-00-5	0.24 U	0.24 ug/kg	3.6 ug/kg	0.79
06192	Trichloroethene	79-01-6	0.14 U	0.14 ug/kg	3.6 ug/kg	0.79
06192	Trichlorofluoromethane	75-69-4	0.26 U	0.26 ug/kg	3.6 ug/kg	0.79
06192	1,2,3-Trichloropropane	96-18-4	0.30 U	0.30 ug/kg	3.6 ug/kg	0.79
06192	1,2,4-Trimethylbenzene	95-63-6	0.36 U	0.36 ug/kg	3.6 ug/kg	0.79
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09 ug/kg	3.6 ug/kg	0.79
06192	Vinyl Chloride	75-01-4	0.18 U	0.18 ug/kg	3.6 ug/kg	0.79
06192	m+p-Xylene	179601-23-1	0.15 U	0.15 ug/kg	3.6 ug/kg	0.79
06192	o-Xylene	95-47-6	0.15 U	0.15 ug/kg	3.6 ug/kg	0.79
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.5 U	4.5 ug/kg	14 ug/kg	19.65
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190 U	190 ug/kg	570 ug/kg	1
04688	Benzidine	92-87-5	1,300 U	1,300 ug/kg	3,800 ug/kg	1
04688	Benzoic acid	65-85-0	190 U	190 ug/kg	570 ug/kg	1
04688	Benzyl alcohol	100-51-6	190 U	190 ug/kg	570 ug/kg	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19 ug/kg	190 ug/kg	1
04688	Carbazole	86-74-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chloro-3-methylphenol	59-50-7	38 U	38 ug/kg	190 ug/kg	1
04688	4-Chloroaniline	106-47-8	77 U	77 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chloronaphthalene	91-58-7	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chlorophenol	95-57-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38 U	38 ug/kg	190 ug/kg	1
04688	Dibenzofuran	132-64-9	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19 ug/kg	190 ug/kg	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110 ug/kg	380 ug/kg	1
04688	2,4-Dichlorophenol	120-83-2	19 U	19 ug/kg	190 ug/kg	1
04688	2,4-Dimethylphenol	105-67-9	38 U	38 ug/kg	190 ug/kg	1
04688	3,5-Dimethylphenol	108-68-9	38 U	38 ug/kg	190 ug/kg	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190 U	190 ug/kg	570 ug/kg	1
04688	2,4-Dinitrophenol	51-28-5	770 U	770 ug/kg	2,300 ug/kg	1
04688	2,4-Dinitrotoluene	121-14-2	38 U	38 ug/kg	190 ug/kg	1
04688	2,6-Dinitrotoluene	606-20-2	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Diphenylhydrazine	122-66-7	19 U	19 ug/kg	190 ug/kg	1

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

Sample Description: SL-109-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-4.0-5.0

LLI Sample # SW 6134958
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10945 SDG#: DE011-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	77	U 77	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	570	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
A separate LCS/LCSD for 3,5-dimethylphenol was performed. The MS/MSD associated with this sample was not spiked with 3,5-dimethylphenol.						
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U 0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U 0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21	1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U 6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9	1

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

Sample Description: SL-109-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-4.0-5.0

LLI Sample # SW 6134958
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10945 SDG#: DE011-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/kg	ug/kg	ug/kg	
10138	Naphthalene	91-20-3	0.84 J	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77 U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9 U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77 U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77 U	0.77	1.9	1

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.57 U	0.57	2.0	1
10225	PCB-1232	11141-16-5	0.60 U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.57 U	0.57	2.0	1
10225	PCB-1248	12672-29-6	13	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38 U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38 U	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	35,900	5.51	21.9	1
07914	Boron	7440-42-8	13.0	0.974	5.47	1
01650	Calcium	7440-70-2	3,780	6.71	21.9	1
01654	Iron	7439-89-6	29,900	25.8	109	5
01656	Lithium	7439-93-2	30.7	0.24	2.2	1
01657	Magnesium	7439-95-4	6,030	2.78	10.9	1
06958	Manganese	7439-96-5	194	0.0854	0.547	1
10145	Phosphorus	7723-14-0	151	0.613	10.9	1
01662	Potassium	7440-09-7	3,060	19.7	54.7	1
01667	Sodium	7440-23-5	487	40.8	109	1
07968	Strontium	7440-24-6	42.3	0.0679	0.547	1
06969	Tin	7440-31-5	3.00 J	1.09	10.9	1
06970	Titanium	7440-32-6	1,590	2.08	5.47	5
10146	Zirconium	7440-67-7	4.84 J	0.920	5.47	1

		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.137 J	0.0683	0.228	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.63	0.0683	0.455	2
06126	Barium	7440-39-3	196	0.123	0.455	2
06127	Beryllium	7440-41-7	1.28	0.0182	0.114	2
06128	Cadmium	7440-43-9	0.0725 J	0.0410	0.114	2
06131	Chromium	7440-47-3	32.6	0.137	0.455	2
06132	Cobalt	7440-48-4	6.97	0.0228	0.114	2

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

Sample Description: SL-109-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-4.0-5.0

LLI Sample # SW 6134958
 LLI Group # 1220276
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:45

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 Suite 210
 Chantilly VA 20151

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10945 SDG#: DE011-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06133	Copper	7440-50-8	10.3	0.0751	0.455	2
06135	Lead	7439-92-1	10.2	0.0118	0.228	2
06138	Molybdenum	7439-98-7	0.548	0.0569	0.114	2
06139	Nickel	7440-02-0	17.8	0.114	0.455	2
06141	Selenium	7782-49-2	0.0683 J	0.0455	0.455	2
06142	Silver	7440-22-4	0.0532 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.488	0.0341	0.114	2
06148	Vanadium	7440-62-2	64.3	0.0250	0.114	2
06149	Zinc	7440-66-6	73.4	0.637	3.41	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0130 J	0.0031	0.108	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	7.6	0.92	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.3 U	10.3	34.5	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	1.3	0.23	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	413	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.62	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	13.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-109-SA5C-SB-4.5.

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

Sample Description: SL-109-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-4.0-5.0

LLI Sample # SW 6134958
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10945 SDG#: DE011-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 08:53	Ryan V Nolt	0.79
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103152AA	11/11/2010 17:15	Sara E Johnson	19.65
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031322887	11/09/2010 18:22	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201031322888	11/09/2010 18:35	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201031322888	11/09/2010 18:34	Lisa J Cooke	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031322887	11/09/2010 18:22	Lisa J Cooke	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 04:01	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/29/2010 23:38	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 20:01	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/17/2010 22:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/17/2010 22:23	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/17/2010 22:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/17/2010 22:47	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 05:31	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/17/2010 22:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 05:31	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 05:31	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/17/2010 22:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/17/2010 22:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 05:31	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 05:31	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103155708003	11/17/2010 22:47	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 05:31	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 12:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 12:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 12:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 12:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:29	Nelli S Markaryan	1

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

Sample Description: SL-109-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-4.0-5.0

LLI Sample # SW 6134958
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10945 SDG#: DE011-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201A	11/23/2010 12:32	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010 18:36	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 13:46	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201A	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10313182102A	11/09/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10313039403A	11/09/2010 13:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401B	11/11/2010 05:21	William C Schwebel	1

Sample Description: SL-109-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-9.0-10.0

LLI Sample # SW 6134959
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:50

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10991 SDG#: DE011-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,900	1
04688	Benzoic acid	65-85-0	190	U 190	580	1
04688	Benzyl alcohol	100-51-6	190	U 190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	190	1
04688	4-Chloroaniline	106-47-8	77	U 77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	39	U 39	190	1
04688	4-Methylphenol	106-44-5	39	U 39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	39	U 39	190	1
04688	4-Nitroaniline	100-01-6	77	U 77	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	580	1
04688	Phenol	108-95-2	19	U 19	190	1

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

Sample Description: SL-109-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-9.0-10.0

LLI Sample # SW 6134959
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:50

CDM Federal Programs Corp.

Submitted: 11/09/2010 09:00

14420 Albemarle Point Place

Reported: 12/06/2010 16:23

Suite 210

Chantilly VA 20151

10991 SDG#: DE011-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U 39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U 39	190	1

A separate LCS/LCSD for 3,5-dimethylphenol was performed. The MS/MSD associated with this sample was not spiked with 3,5-dimethylphenol.

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U 0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U 0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U 0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U 0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21	1
10138	Chrysene	218-01-9	0.39	U 0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U 6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U 0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U 0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U 6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U 0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U 0.77	1.9	1

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg		
10225	Aroclor 5432	63496-31-1	1.2	U 1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U 1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U 1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U 0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58	U 0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60	U 0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58	U 0.58	2.0	1
10225	PCB-1248	12672-29-6	4.0	U 0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U 0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38	U 0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U 0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U 0.38	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Description: SL-109-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-9.0-10.0

LLI Sample # SW 6134959
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:50

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10991 SDG#: DE011-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,600	5.59	22.2	1
07914	Boron	7440-42-8	0.989 U	0.989	5.56	1
01650	Calcium	7440-70-2	25,700	6.81	22.2	1
01654	Iron	7439-89-6	25,900	5.24	22.2	1
01656	Lithium	7439-93-2	23.9	0.24	2.2	1
01657	Magnesium	7439-95-4	5,220	2.82	11.1	1
06958	Manganese	7439-96-5	318	0.0867	0.556	1
10145	Phosphorus	7723-14-0	394	0.622	11.1	1
01662	Potassium	7440-09-7	3,010	20.0	55.6	1
01667	Sodium	7440-23-5	637	41.5	111	1
07968	Strontium	7440-24-6	78.8	0.0689	0.556	1
06969	Tin	7440-31-5	2.67 J	1.11	11.1	1
06970	Titanium	7440-32-6	1,560	2.11	5.56	5
10146	Zirconium	7440-67-7	5.54 J	0.934	5.56	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.194 J	0.0680	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.80	0.0680	0.453	2
06126	Barium	7440-39-3	108	0.122	0.453	2
06127	Beryllium	7440-41-7	1.02	0.0181	0.113	2
06128	Cadmium	7440-43-9	0.0870 J	0.0408	0.113	2
06131	Chromium	7440-47-3	32.6	0.136	0.453	2
06132	Cobalt	7440-48-4	9.01	0.0227	0.113	2
06133	Copper	7440-50-8	13.7	0.0748	0.453	2
06135	Lead	7439-92-1	10.2	0.0118	0.227	2
06138	Molybdenum	7439-98-7	0.671	0.0567	0.113	2
06139	Nickel	7440-02-0	18.4	0.113	0.453	2
06141	Selenium	7782-49-2	0.0623 J	0.0453	0.453	2
06142	Silver	7440-22-4	0.0726 J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.423	0.0340	0.113	2
06148	Vanadium	7440-62-2	59.8	0.0249	0.113	2
06149	Zinc	7440-66-6	72.2	0.635	3.40	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0198 J	0.0031	0.108	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	7.6	0.92	1.2	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.4 U	10.4	34.7	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.32 J	0.23	1.2	1

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

Sample Description: SL-109-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-9.0-10.0

LLI Sample # SW 6134959
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:50

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10991 SDG#: DE011-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	428	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.70	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	13.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 04:27	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 01:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 20:20	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/17/2010 23:15	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/14/2010 05:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/17/2010 23:15	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/17/2010 23:15	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 05:52	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/17/2010 23:15	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 05:52	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 05:52	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/17/2010 23:15	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/17/2010 23:15	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 05:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 05:52	John W Yanzuk II	1

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

Sample Description: SL-109-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-109-SA5C-SB-9.0-10.0

LLI Sample # SW 6134959
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 09:50

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10991 SDG#: DE011-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103155708003	11/17/2010 23:19	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 05:52	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 12:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 12:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 12:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 12:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201A	11/23/2010 13:18	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010 19:00	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 14:00	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201A	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10313182102A	11/09/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10313039403A	11/09/2010 13:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401B	11/11/2010 05:21	William C Schwebel	1

Sample Description: SL-107-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-4.0-5.0

LLI Sample # SW 6134960
 LLI Group # 1220276
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:40

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10745 SDG#: DE011-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.9	0.87
06192	Benzene	71-43-2	0.1 U	0.1	3.9	0.87
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9	0.87
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9	0.87
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9	0.87
06192	Bromoform	75-25-2	0.39 U	0.39	3.9	0.87
06192	Bromomethane	74-83-9	0.25 U	0.25	3.9	0.87
06192	2-Butanone	78-93-3	1.2 U	1.2	7.9	0.87
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9	0.87
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9	0.87
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9	0.87
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9	0.87
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9	0.87
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9	0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	3.9	0.87
06192	Chloroform	67-66-3	0.12 U	0.12	3.9	0.87
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9	0.87
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9	0.87
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9	0.87
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9	0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69 U	0.69	3.9	0.87
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	3.9	0.87
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9	0.87
06192	Dibromomethane	74-95-3	0.24 U	0.24	3.9	0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9	0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9	0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9	0.87
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9	0.87
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9	0.87
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9	0.87
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9	0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	3.9	0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9	0.87
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9	0.87
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9	0.87
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9	0.87
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9	0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9	0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9	0.87
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9	0.87
06192	Freon 113	76-13-1	0.11 U	0.11	3.9	0.87
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9	0.87
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9	0.87
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.9	0.87
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9	0.87
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9	0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	3.9	0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.9	0.87
06192	Methylene Chloride	75-09-2	0.24 U	0.24	3.9	0.87
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9	0.87

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

Sample Description: SL-107-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-4.0-5.0

LLI Sample # SW 6134960
 LLI Group # 1220276
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:40

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10745 SDG#: DE011-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1 ug/kg	3.9 ug/kg	0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11 ug/kg	3.9 ug/kg	0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23 ug/kg	3.9 ug/kg	0.87
06192	Tetrachloroethene	127-18-4	0.20 U	0.20 ug/kg	3.9 ug/kg	0.87
06192	Toluene	108-88-3	0.1 J	0.08 ug/kg	3.9 ug/kg	0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14 ug/kg	3.9 ug/kg	0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18 ug/kg	3.9 ug/kg	0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20 ug/kg	3.9 ug/kg	0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27 ug/kg	3.9 ug/kg	0.87
06192	Trichloroethene	79-01-6	0.15 U	0.15 ug/kg	3.9 ug/kg	0.87
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29 ug/kg	3.9 ug/kg	0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32 ug/kg	3.9 ug/kg	0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39 ug/kg	3.9 ug/kg	0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1 ug/kg	3.9 ug/kg	0.87
06192	Vinyl Chloride	75-01-4	0.20 U	0.20 ug/kg	3.9 ug/kg	0.87
06192	m+p-Xylene	179601-23-1	0.17 U	0.17 ug/kg	3.9 ug/kg	0.87
06192	o-Xylene	95-47-6	0.17 U	0.17 ug/kg	3.9 ug/kg	0.87
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.8 U	4.8 ug/kg	14 ug/kg	21.01
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190 U	190 ug/kg	570 ug/kg	1
04688	Benzidine	92-87-5	1,300 U	1,300 ug/kg	3,800 ug/kg	1
04688	Benzoic acid	65-85-0	190 U	190 ug/kg	570 ug/kg	1
04688	Benzyl alcohol	100-51-6	190 U	190 ug/kg	570 ug/kg	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19 ug/kg	190 ug/kg	1
04688	Carbazole	86-74-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chloro-3-methylphenol	59-50-7	38 U	38 ug/kg	190 ug/kg	1
04688	4-Chloroaniline	106-47-8	76 U	76 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chloronaphthalene	91-58-7	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chlorophenol	95-57-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38 U	38 ug/kg	190 ug/kg	1
04688	Dibenzofuran	132-64-9	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19 ug/kg	190 ug/kg	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110 ug/kg	380 ug/kg	1
04688	2,4-Dichlorophenol	120-83-2	19 U	19 ug/kg	190 ug/kg	1
04688	2,4-Dimethylphenol	105-67-9	38 U	38 ug/kg	190 ug/kg	1
04688	3,5-Dimethylphenol	108-68-9	38 U	38 ug/kg	190 ug/kg	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190 U	190 ug/kg	570 ug/kg	1
04688	2,4-Dinitrophenol	51-28-5	760 U	760 ug/kg	2,300 ug/kg	1
04688	2,4-Dinitrotoluene	121-14-2	38 U	38 ug/kg	190 ug/kg	1
04688	2,6-Dinitrotoluene	606-20-2	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Diphenylhydrazine	122-66-7	19 U	19 ug/kg	190 ug/kg	1

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

Sample Description: SL-107-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-4.0-5.0

LLI Sample # SW 6134960
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:40

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10745 SDG#: DE011-03

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

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

Sample Description: SL-107-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-4.0-5.0

LLI Sample # SW 6134960
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:40

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10745 SDG#: DE011-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Naphthalene	91-20-3	0.76 U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9	1

Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57 U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57 U	0.57	1.9	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38 U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.38 U	0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B						
			mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	33,000	5.50	21.9	1
07914	Boron	7440-42-8	14.8	0.972	5.46	1
01650	Calcium	7440-70-2	6,980	6.70	21.9	1
01654	Iron	7439-89-6	30,800	25.7	109	5
01656	Lithium	7439-93-2	27.7	0.24	2.2	1
01657	Magnesium	7439-95-4	6,300	2.78	10.9	1
06958	Manganese	7439-96-5	209	0.0852	0.546	1
10145	Phosphorus	7723-14-0	165	0.612	10.9	1
01662	Potassium	7440-09-7	3,160	19.7	54.6	1
01667	Sodium	7440-23-5	603	40.8	109	1
07968	Strontium	7440-24-6	50.7	0.0677	0.546	1
06969	Tin	7440-31-5	3.03 J	1.09	10.9	1
06970	Titanium	7440-32-6	1,690	2.08	5.46	5
10146	Zirconium	7440-67-7	4.96 J	0.918	5.46	1

SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0799 J	0.0662	0.221	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.23	0.0662	0.441	2
06126	Barium	7440-39-3	163	0.119	0.441	2
06127	Beryllium	7440-41-7	1.07	0.0177	0.110	2
06128	Cadmium	7440-43-9	0.0953 J	0.0397	0.110	2
06131	Chromium	7440-47-3	33.5	0.132	0.441	2
06132	Cobalt	7440-48-4	5.44	0.0221	0.110	2

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

Sample Description: SL-107-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-4.0-5.0

LLI Sample # SW 6134960
 LLI Group # 1220276
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:40

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10745 SDG#: DE011-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06133	Copper	7440-50-8	11.1	0.0728	0.441	2
06135	Lead	7439-92-1	8.97	0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.487	0.0552	0.110	2
06139	Nickel	7440-02-0	18.1	0.110	0.441	2
06141	Selenium	7782-49-2	0.0586 J	0.0441	0.441	2
06142	Silver	7440-22-4	0.0513 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.442	0.0331	0.110	2
06148	Vanadium	7440-62-2	62.9	0.0243	0.110	2
06149	Zinc	7440-66-6	68.3	0.618	3.31	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0055 J	0.0030	0.106	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	9.6	0.91	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.2 U	10.2	34.1	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.31 J	0.23	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	387	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.72	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	12.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-107-SA5C-SB-4.5.

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

Sample Description: SL-107-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-4.0-5.0

LLI Sample # SW 6134960
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:40

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10745 SDG#: DE011-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 09:16	Ryan V Nolt	0.87
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103152AA	11/11/2010 17:35	Sara E Johnson	21.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031322887	11/09/2010 18:26	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201031322888	11/09/2010 18:34	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201031322888	11/09/2010 18:34	Lisa J Cooke	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031322887	11/09/2010 18:25	Lisa J Cooke	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 02:43	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 01:51	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 20:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/17/2010 23:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/17/2010 23:23	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/17/2010 23:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/17/2010 23:27	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 06:02	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/17/2010 23:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:02	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:02	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/17/2010 23:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/17/2010 23:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:02	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:02	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103155708003	11/17/2010 23:27	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 06:02	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 12:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 12:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 12:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 12:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:35	Nelli S Markaryan	1

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

Sample Description: SL-107-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-4.0-5.0

LLI Sample # SW 6134960
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:40

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10745 SDG#: DE011-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201A	11/23/2010 13:33	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010 19:25	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 14:07	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201A	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10313182102A	11/09/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10313039403A	11/09/2010 13:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401B	11/11/2010 05:21	William C Schwebel	1

Sample Description: SL-107-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-9.0-10.0

LLI Sample # SW 6134961
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10791 SDG#: DE011-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580	1
04688	Benzidine	92-87-5	1,400	U 1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U 190	580	1
04688	Benzyl alcohol	100-51-6	190	U 190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	190	1
04688	4-Chloroaniline	106-47-8	78	U 78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580	1
04688	2,4-Dinitrophenol	51-28-5	780	U 780	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U 78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	39	U 39	190	1
04688	4-Methylphenol	106-44-5	39	U 39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	39	U 39	190	1
04688	4-Nitroaniline	100-01-6	78	U 78	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	580	1
04688	Phenol	108-95-2	19	U 19	190	1

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

Sample Description: SL-107-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-9.0-10.0

LLI Sample # SW 6134961
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10791 SDG#: DE011-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U 39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U 39	190	1

A separate LCS/LCSD for 3,5-dimethylphenol was performed. The MS/MSD associated with this sample was not spiked with 3,5-dimethylphenol.

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U 0.78	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U 0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U 0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.78	U 0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.78	U 0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U 0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U 0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U 0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.2	J 7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U 7.0	21	1
10138	Chrysene	218-01-9	0.39	U 0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U 0.78	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U 7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U 7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U 7.0	21	1
10138	Fluoranthene	206-44-0	0.78	U 0.78	1.9	1
10138	Fluorene	86-73-7	0.78	U 0.78	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U 0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U 0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U 0.78	1.9	1
10138	Naphthalene	91-20-3	0.78	U 0.78	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U 0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U 7.0	21	1
10138	Phenanthrene	85-01-8	0.78	U 0.78	1.9	1
10138	Pyrene	129-00-0	0.78	U 0.78	1.9	1

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg		
10225	Aroclor 5432	63496-31-1	1.2	U 1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U 1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U 1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U 0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58	U 0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60	U 0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58	U 0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38	U 0.38	2.0	1
10225	PCB-1254	11097-69-1	0.39	J 0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38	U 0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U 0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U 0.38	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

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

Sample Description: SL-107-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-9.0-10.0

LLI Sample # SW 6134961
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10791 SDG#: DE011-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	31,400	5.85	23.3	1
07914	Boron	7440-42-8	1.03 U	1.03	5.81	1
01650	Calcium	7440-70-2	5,900	7.13	23.3	1
01654	Iron	7439-89-6	30,500	5.48	23.3	1
01656	Lithium	7439-93-2	27.8	0.26	2.3	1
01657	Magnesium	7439-95-4	6,020	2.95	11.6	1
06958	Manganese	7439-96-5	343	0.0907	0.581	1
10145	Phosphorus	7723-14-0	179	0.651	11.6	1
01662	Potassium	7440-09-7	3,050	20.9	58.1	1
01667	Sodium	7440-23-5	791	43.4	116	1
07968	Strontium	7440-24-6	52.6	0.0721	0.581	1
06969	Tin	7440-31-5	2.90 J	1.16	11.6	1
06970	Titanium	7440-32-6	1,500	2.21	5.81	5
10146	Zirconium	7440-67-7	5.88	0.977	5.81	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.182 J	0.0684	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.23	0.0684	0.456	2
06126	Barium	7440-39-3	79.1	0.123	0.456	2
06127	Beryllium	7440-41-7	0.995	0.0182	0.114	2
06128	Cadmium	7440-43-9	0.129	0.0410	0.114	2
06131	Chromium	7440-47-3	34.7	0.137	0.456	2
06132	Cobalt	7440-48-4	11.9	0.0228	0.114	2
06133	Copper	7440-50-8	14.6	0.0752	0.456	2
06135	Lead	7439-92-1	8.79	0.0119	0.228	2
06138	Molybdenum	7439-98-7	0.404	0.0570	0.114	2
06139	Nickel	7440-02-0	23.5	0.114	0.456	2
06141	Selenium	7782-49-2	0.0626 J	0.0456	0.456	2
06142	Silver	7440-22-4	0.0532 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.376	0.0342	0.114	2
06148	Vanadium	7440-62-2	60.6	0.0251	0.114	2
06149	Zinc	7440-66-6	71.8	0.638	3.42	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0196 J	0.0032	0.113	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	6.3	0.93	1.2	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.5 U	10.5	34.9	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.42 J	0.23	1.2	1

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

Sample Description: SL-107-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-9.0-10.0

LLI Sample # SW 6134961
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10791 SDG#: DE011-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	405	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
00394	pH	n.a.	8.73	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	14.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 04:53	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 02:25	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 20:57	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/17/2010 23:30	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/14/2010 06:06	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/17/2010 23:30	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/17/2010 23:30	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 06:06	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/17/2010 23:30	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:06	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:06	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/17/2010 23:30	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/17/2010 23:30	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:06	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:06	John W Yanzuk II	1

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

Sample Description: SL-107-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-107-SA5C-SB-9.0-10.0

LLI Sample # SW 6134961
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 11:45

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10791 SDG#: DE011-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103155708003	11/17/2010 23:34	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 06:06	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 12:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 12:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201A	11/23/2010 13:48	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010 19:49	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 14:21	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201A	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10313182102A	11/09/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10313039403A	11/09/2010 13:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401B	11/11/2010 05:21	William C Schwebel	1

Sample Description: SL-106-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-4.0-5.0

LLI Sample # SW 6134962
 LLI Group # 1220276
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:00

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10645 SDG#: DE011-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.9	0.87
06192	Benzene	71-43-2	0.1 U	0.1	3.9	0.87
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9	0.87
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9	0.87
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9	0.87
06192	Bromoform	75-25-2	0.39 U	0.39	3.9	0.87
06192	Bromomethane	74-83-9	0.25 U	0.25	3.9	0.87
06192	2-Butanone	78-93-3	1.2 U	1.2	7.9	0.87
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9	0.87
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9	0.87
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9	0.87
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9	0.87
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9	0.87
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9	0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9	0.87
06192	Chloroform	67-66-3	0.14 J	0.12	3.9	0.87
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9	0.87
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9	0.87
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9	0.87
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9	0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69 U	0.69	3.9	0.87
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	3.9	0.87
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9	0.87
06192	Dibromomethane	74-95-3	0.24 U	0.24	3.9	0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9	0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9	0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9	0.87
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9	0.87
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9	0.87
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9	0.87
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9	0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	3.9	0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9	0.87
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9	0.87
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9	0.87
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9	0.87
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9	0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9	0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9	0.87
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9	0.87
06192	Freon 113	76-13-1	0.11 U	0.11	3.9	0.87
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9	0.87
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9	0.87
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.9	0.87
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9	0.87
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9	0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	3.9	0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.9	0.87
06192	Methylene Chloride	75-09-2	1.4 J	0.24	3.9	0.87
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9	0.87

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

Sample Description: SL-106-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-4.0-5.0

LLI Sample # SW 6134962
 LLI Group # 1220276
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:00

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10645 SDG#: DE011-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1 ug/kg	3.9 ug/kg	0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11 ug/kg	3.9 ug/kg	0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23 ug/kg	3.9 ug/kg	0.87
06192	Tetrachloroethene	127-18-4	0.20 U	0.20 ug/kg	3.9 ug/kg	0.87
06192	Toluene	108-88-3	0.11 J	0.08 ug/kg	3.9 ug/kg	0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14 ug/kg	3.9 ug/kg	0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18 ug/kg	3.9 ug/kg	0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20 ug/kg	3.9 ug/kg	0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27 ug/kg	3.9 ug/kg	0.87
06192	Trichloroethene	79-01-6	0.15 U	0.15 ug/kg	3.9 ug/kg	0.87
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29 ug/kg	3.9 ug/kg	0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32 ug/kg	3.9 ug/kg	0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39 ug/kg	3.9 ug/kg	0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1 ug/kg	3.9 ug/kg	0.87
06192	Vinyl Chloride	75-01-4	0.20 U	0.20 ug/kg	3.9 ug/kg	0.87
06192	m+p-Xylene	179601-23-1	0.17 U	0.17 ug/kg	3.9 ug/kg	0.87
06192	o-Xylene	95-47-6	0.17 U	0.17 ug/kg	3.9 ug/kg	0.87
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.0 U	5.0 ug/kg	15 ug/kg	22.36
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190 U	190 ug/kg	560 ug/kg	1
04688	Benzidine	92-87-5	1,300 U	1,300 ug/kg	3,800 ug/kg	1
04688	Benzoic acid	65-85-0	190 U	190 ug/kg	560 ug/kg	1
04688	Benzyl alcohol	100-51-6	190 U	190 ug/kg	560 ug/kg	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19 ug/kg	190 ug/kg	1
04688	Carbazole	86-74-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chloro-3-methylphenol	59-50-7	38 U	38 ug/kg	190 ug/kg	1
04688	4-Chloroaniline	106-47-8	75 U	75 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chloronaphthalene	91-58-7	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chlorophenol	95-57-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38 U	38 ug/kg	190 ug/kg	1
04688	Dibenzofuran	132-64-9	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19 ug/kg	190 ug/kg	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110 ug/kg	380 ug/kg	1
04688	2,4-Dichlorophenol	120-83-2	19 U	19 ug/kg	190 ug/kg	1
04688	2,4-Dimethylphenol	105-67-9	38 U	38 ug/kg	190 ug/kg	1
04688	3,5-Dimethylphenol	108-68-9	38 U	38 ug/kg	190 ug/kg	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190 U	190 ug/kg	560 ug/kg	1
04688	2,4-Dinitrophenol	51-28-5	750 U	750 ug/kg	2,300 ug/kg	1
04688	2,4-Dinitrotoluene	121-14-2	38 U	38 ug/kg	190 ug/kg	1
04688	2,6-Dinitrotoluene	606-20-2	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Diphenylhydrazine	122-66-7	19 U	19 ug/kg	190 ug/kg	1

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

Sample Description: SL-106-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-4.0-5.0

LLI Sample # SW 6134962
 LLI Group # 1220276
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:00

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10645 SDG#: DE011-05

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

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

Sample Description: SL-106-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-4.0-5.0

LLI Sample # SW 6134962
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:00

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10645 SDG#: DE011-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Naphthalene	91-20-3	0.75 U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75 U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75 U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75 U	0.75	1.9	1

Pesticides/PCBs SW-846 8082			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B			mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,600	5.41	21.5	1
07914	Boron	7440-42-8	11.9	0.957	5.37	1
01650	Calcium	7440-70-2	3,680	6.59	21.5	1
01654	Iron	7439-89-6	24,900	5.06	21.5	1
01656	Lithium	7439-93-2	26.8	0.24	2.1	1
01657	Magnesium	7439-95-4	4,990	2.73	10.7	1
06958	Manganese	7439-96-5	227	0.0838	0.537	1
10145	Phosphorus	7723-14-0	220	0.602	10.7	1
01662	Potassium	7440-09-7	2,190	19.3	53.7	1
01667	Sodium	7440-23-5	459	40.1	107	1
07968	Strontium	7440-24-6	39.8	0.0666	0.537	1
06969	Tin	7440-31-5	2.64 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,500	2.04	5.37	5
10146	Zirconium	7440-67-7	4.54 J	0.903	5.37	1

SW-846 6020			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.154 J	0.0657	0.219	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.64	0.0657	0.438	2
06126	Barium	7440-39-3	127	0.118	0.438	2
06127	Beryllium	7440-41-7	1.07	0.0175	0.110	2
06128	Cadmium	7440-43-9	0.0787 J	0.0394	0.110	2
06131	Chromium	7440-47-3	30.2	0.131	0.438	2
06132	Cobalt	7440-48-4	5.40	0.0219	0.110	2

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

Sample Description: SL-106-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-4.0-5.0

LLI Sample # SW 6134962
 LLI Group # 1220276
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:00

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10645 SDG#: DE011-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06133	Copper	7440-50-8	13.0	0.0723	0.438	2
06135	Lead	7439-92-1	8.99	0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.609	0.0548	0.110	2
06139	Nickel	7440-02-0	14.9	0.110	0.438	2
06141	Selenium	7782-49-2	0.0593 J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0615 J	0.0131	0.110	2
06145	Thallium	7440-28-0	0.396	0.0329	0.110	2
06148	Vanadium	7440-62-2	55.3	0.0241	0.110	2
06149	Zinc	7440-66-6	61.9	0.614	3.29	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0206 J	0.0031	0.110	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	8.0	0.90	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.2 U	10.2	33.9	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.28 J	0.23	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	447	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.03	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	11.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-106-SA5C-SB-4.5.

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

Sample Description: SL-106-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-4.0-5.0

LLI Sample # SW 6134962
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:00

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10645 SDG#: DE011-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 09:38	Ryan V Nolt	0.87
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103152AA	11/11/2010 17:54	Sara E Johnson	22.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031322887	11/09/2010 18:29	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201031322888	11/09/2010 18:34	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201031322888	11/09/2010 18:34	Lisa J Cooke	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031322887	11/09/2010 18:28	Lisa J Cooke	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 07:44	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 02:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 21:16	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/17/2010 23:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/17/2010 23:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/17/2010 23:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/17/2010 23:45	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 06:09	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/17/2010 23:45	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/17/2010 23:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/17/2010 23:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103155708003	11/17/2010 23:49	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 06:09	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 12:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 12:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:37	Nelli S Markaryan	1

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

Sample Description: SL-106-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-4.0-5.0

LLI Sample # SW 6134962
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:00

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10645 SDG#: DE011-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201A	11/23/2010 14:04	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010 20:13	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 14:42	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201A	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10313182102A	11/09/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10313039403A	11/09/2010 13:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401B	11/11/2010 05:21	William C Schwebel	1

Sample Description: SL-106-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-9.0-10.0

LLI Sample # SW 6134963
 LLI Group # 1220276
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:05

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10691 SDG#: DE011-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	570	1
04688	Benzyl alcohol	100-51-6	190	U 190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	77	U 77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570	1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	77	U 77	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	570	1
04688	Phenol	108-95-2	19	U 19	190	1

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

Sample Description: SL-106-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-9.0-10.0

LLI Sample # SW 6134963
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:05

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10691 SDG#: DE011-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1

A separate LCS/LCSD for 3,5-dimethylphenol was performed. The MS/MSD associated with this sample was not spiked with 3,5-dimethylphenol.

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U 0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U 0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21	1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U 6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U 0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U 0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U 6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U 0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U 0.77	1.9	1

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg		
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U 0.38	2.0	1
10225	PCB-1221	11104-28-2	0.57	U 0.57	2.0	1
10225	PCB-1232	11141-16-5	0.60	U 0.60	2.0	1
10225	PCB-1242	53469-21-9	0.57	U 0.57	2.0	1
10225	PCB-1248	12672-29-6	0.38	U 0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U 0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38	U 0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U 0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U 0.38	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Description: SL-106-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-9.0-10.0

LLI Sample # SW 6134963
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:05

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10691 SDG#: DE011-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,300	5.67	22.5	1
07914	Boron	7440-42-8	1.00 U	1.00	5.63	1
01650	Calcium	7440-70-2	3,640	6.91	22.5	1
01654	Iron	7439-89-6	25,200	5.31	22.5	1
01656	Lithium	7439-93-2	36.6	0.25	2.3	1
01657	Magnesium	7439-95-4	4,860	2.86	11.3	1
06958	Manganese	7439-96-5	312	0.0879	0.563	1
10145	Phosphorus	7723-14-0	230	0.631	11.3	1
01662	Potassium	7440-09-7	2,790	20.3	56.3	1
01667	Sodium	7440-23-5	471	42.0	113	1
07968	Strontium	7440-24-6	35.8	0.0699	0.563	1
06969	Tin	7440-31-5	2.84 J	1.13	11.3	1
06970	Titanium	7440-32-6	1,450	2.14	5.63	5
10146	Zirconium	7440-67-7	5.25 J	0.947	5.63	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.120 J	0.0683	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.26	0.0683	0.455	2
06126	Barium	7440-39-3	69.8	0.123	0.455	2
06127	Beryllium	7440-41-7	0.877	0.0182	0.114	2
06128	Cadmium	7440-43-9	0.190	0.0410	0.114	2
06131	Chromium	7440-47-3	27.4	0.137	0.455	2
06132	Cobalt	7440-48-4	8.40	0.0228	0.114	2
06133	Copper	7440-50-8	11.7	0.0751	0.455	2
06135	Lead	7439-92-1	7.61	0.0118	0.228	2
06138	Molybdenum	7439-98-7	0.604	0.0569	0.114	2
06139	Nickel	7440-02-0	20.9	0.114	0.455	2
06141	Selenium	7782-49-2	0.0455 U	0.0455	0.455	2
06142	Silver	7440-22-4	0.0652 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.319	0.0341	0.114	2
06148	Vanadium	7440-62-2	48.4	0.0250	0.114	2
06149	Zinc	7440-66-6	58.2	0.637	3.41	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0101 J	0.0031	0.108	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	8.4	0.92	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.3 U	10.3	34.5	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.37 J	0.23	1.1	1

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

Sample Description: SL-106-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-9.0-10.0

LLI Sample # SW 6134963
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:05

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10691 SDG#: DE011-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	452	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.99	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	13.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 08:10	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 03:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 21:34	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/17/2010 23:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/14/2010 06:12	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/17/2010 23:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/17/2010 23:52	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 06:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/17/2010 23:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/17/2010 23:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/17/2010 23:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:12	John W Yanzuk II	1

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

Sample Description: SL-106-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-106-SA5C-SB-9.0-10.0

LLI Sample # SW 6134963
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:05

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10691 SDG#: DE011-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103155708003	11/17/2010	23:56	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010	06:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010	13:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010	13:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010	13:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010	13:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010	19:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010	12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010	10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010	12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201A	11/23/2010	14:19	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010	20:37	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010	14:49	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201A	11/22/2010	13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010	13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10313182102A	11/09/2010	13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10313039403A	11/09/2010	13:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010	21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401B	11/11/2010	05:21	William C Schwebel	1

Sample Description: SL-108-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-4.0-5.0

LLI Sample # SW 6134964
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:15

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10845 SDG#: DE011-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.9	0.85
06192	Benzene	71-43-2	0.1 U	0.1	3.9	0.85
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9	0.85
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9	0.85
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9	0.85
06192	Bromoform	75-25-2	0.39 U	0.39	3.9	0.85
06192	Bromomethane	74-83-9	0.25 U	0.25	3.9	0.85
06192	2-Butanone	78-93-3	1.2 U	1.2	7.9	0.85
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9	0.85
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9	0.85
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9	0.85
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9	0.85
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9	0.85
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9	0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	3.9	0.85
06192	Chloroform	67-66-3	0.15 J	0.12	3.9	0.85
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9	0.85
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9	0.85
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9	0.85
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9	0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69 U	0.69	3.9	0.85
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	3.9	0.85
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9	0.85
06192	Dibromomethane	74-95-3	0.24 U	0.24	3.9	0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9	0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9	0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9	0.85
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9	0.85
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9	0.85
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9	0.85
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9	0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	3.9	0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9	0.85
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9	0.85
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9	0.85
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9	0.85
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9	0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9	0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9	0.85
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9	0.85
06192	Freon 113	76-13-1	0.11 U	0.11	3.9	0.85
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9	0.85
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9	0.85
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.9	0.85
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9	0.85
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9	0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	3.9	0.85
06192	4-Methyl-2-pentanone	108-10-1	0.47 J	0.38	7.9	0.85
06192	Methylene Chloride	75-09-2	4.5	0.24	3.9	0.85
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9	0.85

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

Sample Description: SL-108-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-4.0-5.0

LLI Sample # SW 6134964
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:15

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10845 SDG#: DE011-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1	3.9	0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9	0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	3.9	0.85
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	3.9	0.85
06192	Toluene	108-88-3	0.12 J	0.08	3.9	0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9	0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	3.9	0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	3.9	0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	3.9	0.85
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9	0.85
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	3.9	0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9	0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9	0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9	0.85
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	3.9	0.85
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	3.9	0.85
06192	o-Xylene	95-47-6	0.17 U	0.17	3.9	0.85
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.9 U	4.9	15	21.04
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190	U 190	580	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	580	1
04688	Benzyl alcohol	100-51-6	190	U 190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	77	U 77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1

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

Sample Description: SL-108-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-4.0-5.0

LLI Sample # SW 6134964
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:15

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10845 SDG#: DE011-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	77	U 77	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	580	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
A separate LCS/LCSD for 3,5-dimethylphenol was performed. The MS/MSD associated with this sample was not spiked with 3,5-dimethylphenol.						
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.93	J 0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	2.1	U 0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	J 0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21	1
10138	Chrysene	218-01-9	1.7	J 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U 6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9	1

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

Sample Description: SL-108-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-4.0-5.0

LLI Sample # SW 6134964
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:15

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10845 SDG#: DE011-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Naphthalene	91-20-3	0.77 U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77 U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9 U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77 U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77 U	0.77	1.9	1

	Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2 U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58 U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60 U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58 U	0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	2.0	1
10225	PCB-1254	11097-69-1	1.4 J	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38 U	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

	Metals	SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	35,600	5.53	22.0	1
07914	Boron	7440-42-8	16.1	0.979	5.50	1
01650	Calcium	7440-70-2	6,040	6.74	22.0	1
01654	Iron	7439-89-6	31,000	25.9	110	5
01656	Lithium	7439-93-2	29.2	0.24	2.2	1
01657	Magnesium	7439-95-4	6,430	2.79	11.0	1
06958	Manganese	7439-96-5	424	0.0858	0.550	1
10145	Phosphorus	7723-14-0	189	0.616	11.0	1
01662	Potassium	7440-09-7	3,110	19.8	55.0	1
01667	Sodium	7440-23-5	578	41.0	110	1
07968	Strontium	7440-24-6	47.7	0.0682	0.550	1
06969	Tin	7440-31-5	2.92 J	1.10	11.0	1
06970	Titanium	7440-32-6	1,690	2.09	5.50	5
10146	Zirconium	7440-67-7	5.92	0.924	5.50	1

		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.157 J	0.0693	0.231	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.3	0.0693	0.462	2
06126	Barium	7440-39-3	173	0.125	0.462	2
06127	Beryllium	7440-41-7	1.53	0.0185	0.115	2
06128	Cadmium	7440-43-9	0.135	0.0416	0.115	2
06131	Chromium	7440-47-3	39.3	0.139	0.462	2
06132	Cobalt	7440-48-4	21.8	0.0231	0.115	2

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

Sample Description: SL-108-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-4.0-5.0

LLI Sample # SW 6134964
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:15

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10845 SDG#: DE011-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06133	Copper	7440-50-8	14.0	0.0762	0.462	2
06135	Lead	7439-92-1	14.7	0.0120	0.231	2
06138	Molybdenum	7439-98-7	0.675	0.0577	0.115	2
06139	Nickel	7440-02-0	25.7	0.115	0.462	2
06141	Selenium	7782-49-2	0.0974 J	0.0462	0.462	2
06142	Silver	7440-22-4	0.0557 J	0.0139	0.115	2
06145	Thallium	7440-28-0	0.489	0.0346	0.115	2
06148	Vanadium	7440-62-2	85.6	0.0254	0.115	2
06149	Zinc	7440-66-6	90.3	0.647	3.46	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0299 J	0.0033	0.114	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	7.6	0.92	1.2	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.4 U	10.4	34.6	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.27 J	0.23	1.2	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	459	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.83	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	13.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-108-SA5C-SB-4.5.

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

Sample Description: SL-108-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-4.0-5.0

LLI Sample # SW 6134964
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:15

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 Suite 210
 Chantilly VA 20151

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10845 SDG#: DE011-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103142AA	11/11/2010 10:01	Ryan V Nolt	0.85
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103152AA	11/11/2010 18:14	Sara E Johnson	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031322887	11/09/2010 18:32	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201031322888	11/09/2010 18:34	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201031322888	11/09/2010 18:35	Lisa J Cooke	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031322887	11/09/2010 18:31	Lisa J Cooke	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 08:36	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 04:03	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 21:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/18/2010 00:00	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/18/2010 00:00	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/18/2010 00:00	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/18/2010 00:04	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 06:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/18/2010 00:00	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/18/2010 00:00	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/18/2010 00:00	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:16	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103155708003	11/18/2010 00:04	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 06:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 13:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 13:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 13:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 13:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:42	Nelli S Markaryan	1

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

Sample Description: SL-108-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-4.0-5.0

LLI Sample # SW 6134964
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:15

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10845 SDG#: DE011-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201A	11/23/2010 15:04	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10323323201B	11/21/2010 21:01	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 15:03	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201A	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10323323201B	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10313182102A	11/09/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10313039403A	11/09/2010 13:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401B	11/11/2010 05:21	William C Schwebel	1

Sample Description: SL-108-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-9.0-10.0

LLI Sample # SW 6134965
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:20

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10891 SDG#: DE011-08

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

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

Sample Description: SL-108-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-9.0-10.0

LLI Sample # SW 6134965
 LLI Group # 1220276
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:20

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10891 SDG#: DE011-08

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

A separate LCS/LCSD for 3,5-dimethylphenol was performed. The MS/MSD associated with this sample was not spiked with 3,5-dimethylphenol.

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U 0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U 0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U 0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U 0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U 6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U 0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U 0.74	1.9	1

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg		
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U 0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U 0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U 0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U 0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U 0.37	1.9	1
10225	PCB-1254	11097-69-1	1.6	J 0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U 0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U 0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U 0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Description: SL-108-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-9.0-10.0

LLI Sample # SW 6134965
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:20

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10891 SDG#: DE011-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,100	5.56	22.1	1
07914	Boron	7440-42-8	0.983 U	0.983	5.53	1
01650	Calcium	7440-70-2	3,400	6.77	22.1	1
01654	Iron	7439-89-6	22,400	5.20	22.1	1
01656	Lithium	7439-93-2	21.8	0.24	2.2	1
01657	Magnesium	7439-95-4	4,330	2.81	11.1	1
06958	Manganese	7439-96-5	481	0.0862	0.553	1
10145	Phosphorus	7723-14-0	220	0.619	11.1	1
01662	Potassium	7440-09-7	2,600	19.9	55.3	1
01667	Sodium	7440-23-5	513	41.2	111	1
07968	Strontium	7440-24-6	33.3	0.0685	0.553	1
06969	Tin	7440-31-5	2.31 J	1.11	11.1	1
06970	Titanium	7440-32-6	1,180	2.10	5.53	5
10146	Zirconium	7440-67-7	3.91 J	0.928	5.53	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.139 J	0.0663	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.93	0.0663	0.442	2
06126	Barium	7440-39-3	68.2	0.119	0.442	2
06127	Beryllium	7440-41-7	0.921	0.0177	0.111	2
06128	Cadmium	7440-43-9	0.116	0.0398	0.111	2
06131	Chromium	7440-47-3	28.6	0.133	0.442	2
06132	Cobalt	7440-48-4	10.1	0.0221	0.111	2
06133	Copper	7440-50-8	12.3	0.0729	0.442	2
06135	Lead	7439-92-1	8.15	0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.750	0.0553	0.111	2
06139	Nickel	7440-02-0	19.0	0.111	0.442	2
06141	Selenium	7782-49-2	0.0558 J	0.0442	0.442	2
06142	Silver	7440-22-4	0.0318 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.304	0.0332	0.111	2
06148	Vanadium	7440-62-2	56.3	0.0243	0.111	2
06149	Zinc	7440-66-6	63.6	0.619	3.32	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0050 J	0.0031	0.107	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	5.8	0.89	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.0 U	10.0	33.5	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.30 J	0.22	1.1	1

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

Sample Description: SL-108-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-9.0-10.0

LLI Sample # SW 6134965
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:20

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10891 SDG#: DE011-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	454	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.25	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	10.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 09:01	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 04:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 22:11	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/18/2010 00:07	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/14/2010 06:19	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/18/2010 00:07	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/18/2010 00:07	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103155708003	11/18/2010 00:07	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/18/2010 00:07	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:19	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:19	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/18/2010 00:07	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/18/2010 00:07	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:19	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:19	John W Yanzuk II	1

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

Sample Description: SL-108-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-108-SA5C-SB-9.0-10.0

LLI Sample # SW 6134965
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 14:20

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

10891 SDG#: DE011-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103155708003	11/18/2010 00:11	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 06:19	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 13:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 20:01	David K Beck	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 13:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 13:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201A	11/23/2010 15:20	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202A	11/23/2010 12:42	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10320243201A	11/17/2010 15:24	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201A	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202A	11/23/2010 12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10313182102A	11/09/2010 13:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10313039403A	11/09/2010 13:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10320243201A	11/16/2010 21:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10314162401B	11/11/2010 05:21	William C Schwebel	1

Sample Description: TB-110810 Water
SSFL Area IV Collocated Soil Sampling
TB-110810

LLI Sample # WW 6134966
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:30

CDM Federal Programs Corp.

Submitted: 11/09/2010 09:00

14420 Albemarle Point Place

Reported: 12/06/2010 16:23

Suite 210

Chantilly VA 20151

TB108 SDG#: DE011-09TB*

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

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

Sample Description: TB-110810 Water
 SSFL Area IV Collocated Soil Sampling
 TB-110810

LLI Sample # WW 6134966
LLI Group # 1220276
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/08/2010 16:30

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

Submitted: 11/09/2010 09:00

Reported: 12/06/2010 16:23

TB108 SDG#: DE011-09TB*

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103191AA	11/15/2010	12:17	Nicholas R Rossi	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103151AA	11/11/2010	12:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103151AA	11/11/2010	12:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103191AA	11/15/2010	12:17	Nicholas R Rossi	1

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B103142AA	Sample number(s): 6134958, 6134960, 6134962, 6134964								
Acetone	6.7	U	6.7	8.0	ug/kg	128	32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	92	80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	95	79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	122	79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	86	78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	72	70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	61	32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	104	46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98	72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	99	75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	94	75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	74	69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	93	80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	62	37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	98	43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	92	80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	57	54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69	22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	90	58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	80	77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95	80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	96	80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	96	79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	96	78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95	79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	37	20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	90	80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	92	71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	91	73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	92	80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	88	79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	91	80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	95	80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	79	72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	91	77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	87	80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	84	77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	94	80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	96	61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92	78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	97	57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	103	45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	93	76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	98	75-120		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	93		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	101		61-134		
Methylene Chloride	0.59 J	0.24	4.0	ug/kg	112		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	100		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	92		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	81		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	101		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	93		77-120		
Toluene	0.13 J	0.08	4.0	ug/kg	92		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	96		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	95		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	83		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	94		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	92		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	72		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	102		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	99		79-120		
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	97		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	61		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	92		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	91		80-120		
Batch number: E103151AA Sample number(s): 6134966									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	97	101	60-132	4	30
Batch number: E103152AA Sample number(s): 6134958,6134960,6134962,6134964									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	97	100	70-130	2	30
Batch number: Y103191AA Sample number(s): 6134966									
Acetone	6 U	6.	20	ug/l	148	145	49-234	2	30
Benzene	0.5 U	0.5	5	ug/l	99	99	79-120	0	30
Bromobenzene	1 U	1.	5	ug/l	107	108	80-120	1	30
Bromochloromethane	1 U	1.	5	ug/l	97	98	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	93	92	80-120	1	30
Bromoform	1 U	1.	5	ug/l	101	101	61-120	0	30
Bromomethane	1 U	1.	5	ug/l	106	102	44-120	3	30
2-Butanone	3 U	3.	10	ug/l	105	106	66-151	1	30
n-Butylbenzene	1 U	1.	5	ug/l	104	103	74-120	0	30
sec-Butylbenzene	1 U	1.	5	ug/l	108	109	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	100	104	80-120	4	30
Carbon Tetrachloride	1 U	1.	5	ug/l	96	94	75-123	2	30
Chlorobenzene	0.8 U	0.8	5	ug/l	98	97	80-120	1	30
Chloroethane	1 U	1.	5	ug/l	97	92	49-129	5	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	108	111	56-129	3	30
Chloroform	0.8 U	0.8	5	ug/l	100	99	77-122	2	30
Chloromethane	1 U	1.	5	ug/l	85	87	60-129	2	30
2-Chlorotoluene	1 U	1.	5	ug/l	105	105	80-120	1	30
4-Chlorotoluene	1 U	1.	5	ug/l	102	102	80-120	0	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	132	127	38-136	3	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	112	115	66-120	3	30
Dibromochloromethane	1 U	1.	5	ug/l	92	93	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	102	103	80-120	1	30
Dibromomethane	1 U	1.	5	ug/l	98	100	80-120	1	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	98	101	80-120	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	103	104	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	101	102	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	68	69	47-120	2	30
1,1-Dichloroethane	1 U	1.	5	ug/l	101	101	79-120	0	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dichloroethane	1 U	1.	5	ug/l	103	101	70-130	1	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	114	114	74-123	0	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	99	80-120	0	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	100	98	80-120	1	30
1,2-Dichloropropane	1 U	1.	5	ug/l	99	98	78-120	1	30
1,3-Dichloropropane	1 U	1.	5	ug/l	102	103	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	96	94	77-124	3	30
1,1-Dichloropropene	1 U	1.	5	ug/l	100	100	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	92	93	80-120	1	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	94	97	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	100	99	79-120	2	30
Freon 113	2 U	2.	10	ug/l	115	112	69-128	3	30
Freon 133a	2 U	2.	5	ug/l	98	95	77-120	3	30
Hexachlorobutadiene	2 U	2.	5	ug/l	96	97	58-120	1	30
2-Hexanone	3 U	3.	10	ug/l	107	108	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	98	98	77-120	0	30
p-Isopropyltoluene	1 U	1.	5	ug/l	107	106	80-120	0	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	98	100	76-120	2	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	104	104	70-121	0	30
Methylene Chloride	2 U	2.	5	ug/l	103	106	80-120	3	30
n-Propylbenzene	1 U	1.	5	ug/l	111	112	80-120	1	30
Styrene	1 U	1.	5	ug/l	110	110	80-120	0	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	96	96	80-120	1	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	109	112	71-120	3	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	96	97	80-121	1	30
Toluene	0.7 U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	102	104	65-120	2	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	99	101	67-120	2	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	100	99	75-127	1	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	102	101	80-120	2	30
Trichloroethene	1 U	1.	5	ug/l	98	96	80-120	2	30
Trichlorofluoromethane	2 U	2.	5	ug/l	109	105	64-129	3	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	110	114	80-120	4	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	108	109	74-120	1	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	106	106	75-120	0	30
Vinyl Chloride	1 U	1.	5	ug/l	81	82	65-125	1	30
m+p-Xylene	0.8 U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8 U	0.8	5	ug/l	94	94	80-120	0	30

Batch number: 10316SLLO26

Sample number(s): 6134958-6134965

Acenaphthene	0.67 U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	87		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	109		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	105		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	125		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	98		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	105		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	100		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	104		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	103		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	103		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	102		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	98		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	104		62-141		

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	97		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	86		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	116		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	99		56-121		
Batch number: 10316SLP026 Sample number(s): 6134958-6134965									
Aniline	170 U	170.	500	ug/kg	74		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170 U	170.	500	ug/kg	96		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	101		79-117		
Carbazole	17 U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	92		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	38		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	89		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	111		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	94		79-110		
Dibenzofuran	17 U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	70		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	92	97	70-130	5	30
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	70		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	90		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	98		77-111		
Hexachlorobenzene	17 U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	58		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	87		68-105		
Isophorone	17 U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	98		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	101		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	87		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	90		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	101		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	82		56-118		

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	102		67-141		
Pentachlorophenol	170 U	170.	500	ug/kg	84		35-106		
Phenol	17 U	17.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33 U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	100		78-111		
Batch number: 103160020A	Sample number(s): 6134958-6134965								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	51*	57*	75-125	10	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	73		72-120		
PCB-1221	0.50 U	0.50	1.7	ug/kg					
PCB-1232	0.52 U	0.52	1.7	ug/kg					
PCB-1242	0.50 U	0.50	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.33 U	0.33	1.7	ug/kg	115		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					
Batch number: 103151026003A	Sample number(s): 6134958-6134965								
Antimony	0.0583 U	0.0583	0.194	mg/kg	106		11-208		
Arsenic	0.0583 U	0.0583	0.388	mg/kg	97		80-120		
Beryllium	0.0155 U	0.0155	0.0971	mg/kg	98		82-118		
Cadmium	0.0350 U	0.0350	0.0971	mg/kg	101		82-118		
Chromium	0.130 J	0.117	0.388	mg/kg	107		80-120		
Cobalt	0.0194 U	0.0194	0.0971	mg/kg	101		82-118		
Copper	0.0641 U	0.0641	0.388	mg/kg	99		80-120		
Lead	0.0144 J	0.0101	0.194	mg/kg	102		80-120		
Nickel	0.0971 U	0.0971	0.388	mg/kg	104		80-120		
Silver	0.0117 U	0.0117	0.0971	mg/kg	100		66-134		
Thallium	0.0291 U	0.0291	0.0971	mg/kg	98		81-119		
Vanadium	0.0214 U	0.0214	0.0971	mg/kg	94		90-110		
Zinc	0.544 U	0.544	2.91	mg/kg	103		78-122		
Batch number: 103151026003B	Sample number(s): 6134958-6134965								
Selenium	0.0388 U	0.0388	0.388	mg/kg	101		79-122		
Batch number: 103151026003C	Sample number(s): 6134958-6134965								
Molybdenum	0.0485 U	0.0485	0.0971	mg/kg	107		78-122		
Batch number: 103151026003D	Sample number(s): 6134958-6134965								
Barium	0.105 U	0.105	0.388	mg/kg	96		79-121		
Batch number: 103155708003	Sample number(s): 6134958-6134965								
Aluminum	5.03 U	5.03	20.0	mg/kg	102		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	89		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	97		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	96		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	99		81-119		
Phosphorus	1.46 J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3 U	37.3	100	mg/kg	95		87-110		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Strontium	0.0620 U	0.0620	0.500	mg/kg	99		79-121		
Tin	1.17 J	1.00	10.0	mg/kg	93		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	96		85-115		
Zirconium	0.840 U	0.840	5.00	mg/kg	101		80-120		
Batch number: 103155711002	Sample number(s): 6134958-6134965								
Mercury	0.0027 U	0.0027	0.0942	mg/kg	103		88-123		
Batch number: 10320243201A	Sample number(s): 6134958-6134965								
Hexavalent Chromium by IC	0.20 U	0.20	1.0	mg/kg	90		80-120		
Batch number: 10323323201B	Sample number(s): 6134958-6134964								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 10326326201A	Sample number(s): 6134958-6134965								
Fluoride by IC (solid)	0.80 U	0.80	1.0	mg/kg	92		90-110		
Batch number: 10327327202A	Sample number(s): 6134965								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 10313039403A	Sample number(s): 6134958-6134965								
pH					101		95-105		
Batch number: 10313182102A	Sample number(s): 6134958-6134965								
Oxidation Reduction Potential					98		98-102		
Batch number: 10314162401B	Sample number(s): 6134958-6134965								
Moisture CDM					100		80-120		

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103142AA	Sample number(s): 6134958,6134960,6134962,6134964 UNSPK: P133892								
Acetone	157	150	15-210	1	30				
Benzene	104	98	55-143	2	30				
Bromobenzene	109	100	43-139	5	30				
Bromochloromethane	142*	138*	60-137	1	30				
Bromodichloromethane	96	93	53-136	1	30				
Bromoform	75	74	38-124	2	30				
Bromomethane	83	81	42-168	2	30				
2-Butanone	116	108	37-163	3	30				
n-Butylbenzene	114	101	30-146	9	30				
sec-Butylbenzene	118	105	33-157	7	30				
tert-Butylbenzene	112	100	41-152	7	30				
Carbon Tetrachloride	84	83	45-153	2	30				
Chlorobenzene	105	98	49-135	3	30				
Chloroethane	85	83	39-152	1	30				
2-Chloroethyl Vinyl Ether	102	102	32-139	4	30				
Chloroform	104	100	61-142	1	30				
Chloromethane	93	94	51-163	4	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2-Chlorotoluene	109	100	42-146	5	30				
4-Chlorotoluene	110	99	39-145	7	30				
Chlorotrifluoroethene	72	72	70-130	1	30				
1,2-Dibromo-3-chloropropane	88	82	30-139	4	30				
Dibromochloromethane	88	85	51-128	1	30				
1,2-Dibromoethane	103	96	54-129	3	30				
Dibromomethane	104	98	57-130	2	30				
1,2-Dichlorobenzene	106	96	36-133	7	30				
1,3-Dichlorobenzene	107	97	34-134	6	30				
1,4-Dichlorobenzene	107	96	35-136	7	30				
Dichlorodifluoromethane	87	87	26-151	4	30				
1,1-Dichloroethane	100	95	63-142	1	30				
1,2-Dichloroethane	101	97	68-131	1	30				
1,1-Dichloroethene	90	84	61-149	2	30				
cis-1,2-Dichloroethene	104	98	60-136	2	30				
trans-1,2-Dichloroethene	95	90	59-142	1	30				
1,2-Dichloropropane	103	99	62-135	0	30				
1,3-Dichloropropane	106	99	58-129	3	30				
2,2-Dichloropropane	87	85	53-147	2	30				
1,1-Dichloropropene	105	100	54-145	1	30				
cis-1,3-Dichloropropene	97	94	51-131	0	30				
trans-1,3-Dichloropropene	91	87	49-129	0	30				
Ethylbenzene	108	100	44-141	4	30				
Freon 113	102	98	56-156	0	30				
Freon 133a	99	99	70-130	1	30				
Hexachlorobutadiene	110	96	10-155	9	30				
2-Hexanone	108	102	32-160	2	30				
Isopropylbenzene	108	100	38-144	4	30				
p-Isopropyltoluene	114	102	29-152	7	30				
Methyl Tertiary Butyl Ether	96	92	55-129	1	30				
4-Methyl-2-pentanone	100	94	46-139	3	30				
Methylene Chloride	94	95	61-141	5	30				
n-Propylbenzene	116	106	39-157	6	30				
Styrene	105	97	35-134	4	30				
1,1,1,2-Tetrachloroethane	89	87	52-130	2	30				
1,1,2,2-Tetrachloroethane	105	96	40-152	6	30				
Tetrachloroethene	105	97	42-149	4	30				
Toluene	106	99	50-146	3	30				
1,2,3-Trichlorobenzene	98	90	10-140	5	30				
1,2,4-Trichlorobenzene	99	90	10-136	6	30				
1,1,1-Trichloroethane	96	91	64-142	2	30				
1,1,2-Trichloroethane	103	97	54-139	2	30				
Trichloroethene	106	99	53-144	3	30				
Trichlorofluoromethane	100	100	47-163	4	30				
1,2,3-Trichloropropane	109	101	45-154	4	30				
1,2,4-Trimethylbenzene	112	101	37-149	6	30				
1,3,5-Trimethylbenzene	111	101	38-150	6	30				
Vinyl Chloride	94	94	50-154	4	30				
m+p-Xylene	105	98	44-137	3	30				
o-Xylene	104	96	42-137	4	30				

 Batch number: 10316SL026
 Acenaphthene

 Sample number(s): 6134958-6134965 UNSPK: 6134958
 91 89 63-105 2 30

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

Sample Matrix Quality Control

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

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Acenaphthylene	85	81	55-126	5	30				
Anthracene	90	89	46-136	1	30				
Benzo(a)anthracene	95	96	39-144	1	30				
Benzo(a)pyrene	107	108	34-156	1	30				
Benzo(b)fluoranthene	132	142	43-155	7	30				
Benzo(g,h,i)perylene	59	55	33-141	6	30				
Benzo(k)fluoranthene	121	126	42-144	4	30				
Butylbenzylphthalate	97	99	73-140	1	30				
Di-n-butylphthalate	101	101	78-160	0	30				
Chrysene	97	99	29-156	2	30				
Dibenz(a,h)anthracene	64	57	41-130	10	30				
Diethylphthalate	99	97	87-131	2	30				
Dimethylphthalate	99	96	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	98	98	39-167	0	30				
Fluoranthene	94	96	26-166	1	30				
Fluorene	96	94	45-121	2	30				
Indeno(1,2,3-cd)pyrene	65	61	21-143	8	30				
1-Methylnaphthalene	93	93	72-123	0	30				
2-Methylnaphthalene	83	83	28-121	0	30				
Naphthalene	90	90	61-102	1	30				
N-Nitrosodimethylamine	85	88	48-113	4	30				
Di-n-octylphthalate	129	139	40-192	8	30				
Phenanthrene	94	94	12-165	0	30				
Pyrene	97	99	15-153	2	30				

Batch number: 10316SLP026	Sample number(s): 6134958-6134965	UNSPK: 6134960			
Aniline	73	79	14-114	8	30
Benzidine	34*	45	35-141	29	30
Benzoic acid	64	79	10-173	21	30
Benzyl alcohol	99	99	55-123	0	30
4-Bromophenyl-phenylether	95	100	67-129	4	30
Carbazole	90	95	64-120	6	30
4-Chloro-3-methylphenol	86	97	53-130	12	30
4-Chloroaniline	56	76	23-95	30	30
bis(2-Chloroethoxy)methane	84	89	54-117	6	30
bis(2-Chloroethyl)ether	84	86	60-116	3	30
bis(2-Chloroisopropyl)ether	76	80	55-142	4	30
2-Chloronaphthalene	85	89	50-141	5	30
2-Chlorophenol	94	93	73-121	1	30
4-Chlorophenyl-phenylether	87	96	64-119	10	30
Dibenzofuran	87	96	71-112	10	30
1,2-Dichlorobenzene	81	83	66-108	3	30
1,3-Dichlorobenzene	75	78	63-109	4	30
1,4-Dichlorobenzene	77	82	53-113	6	30
3,3'-Dichlorobenzidine	64	78	25-123	19	30
2,4-Dichlorophenol	91	99	78-117	8	30
2,4-Dimethylphenol	89	98	56-130	9	30
4,6-Dinitro-2-methylphenol	59	68	10-148	15	30
2,4-Dinitrophenol	39	49	20-143	23	30
2,4-Dinitrotoluene	85	95	57-114	12	30
2,6-Dinitrotoluene	87	97	69-123	10	30
1,2-Diphenylhydrazine	91	97	71-129	6	30
Hexachlorobenzene	91	99	61-111	8	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Hexachlorobutadiene	83	90	62-120	8	30				
Hexachlorocyclopentadiene	43	46	10-153	7	30				
Hexachloroethane	74	76	57-109	3	30				
Isophorone	84	88	51-118	5	30				
2-Methylphenol	90	95	47-142	5	30				
4-Methylphenol	98	100	55-126	3	30				
2-Nitroaniline	86	98	67-125	13	30				
3-Nitroaniline	84	93	59-122	10	30				
4-Nitroaniline	65	74	52-112	13	30				
Nitrobenzene	85	90	51-114	5	30				
2-Nitrophenol	93	95	74-115	2	30				
4-Nitrophenol	79	90	39-133	13	30				
N-Nitroso-di-n-propylamine	83	85	60-116	2	30				
N-Nitrosodiphenylamine	93	101	86-145	8	30				
Pentachlorophenol	79	91	17-149	14	30				
Phenol	93	96	58-126	3	30				
1,2,4-Trichlorobenzene	83	91	72-115	10	30				
2,4,5-Trichlorophenol	92	98	34-139	6	30				
2,4,6-Trichlorophenol	92	103	49-140	11	30				
Batch number: 103160020A Sample number(s): 6134958-6134965 UNSPK: P133892									
PCB-1016	79	93	29-146	16	50				
PCB-1260	118	137	39-149	15	50				
Batch number: 103151026003A Sample number(s): 6134958-6134965 UNSPK: 6134958 BKG: 6134958									
Antimony	57*	50*	75-125	14	20	0.119 J	0.107 J	10 (1)	20
Arsenic	77	137*	75-125	11	20	7.51	7.89	5	20
Beryllium	87	99	75-125	4	20	1.11	1.13	1	20
Cadmium	100	113	75-125	8	20	0.0630 J	0.0588 J	7 (1)	20
Chromium	75	90	75-125	3	20	28.3	28.8	1	20
Cobalt	87	95	75-125	4	20	6.07	5.42	11	20
Copper	83	97	75-125	6	20	8.98	9.32	4	20
Lead	80	129*	75-125	11	20	8.84	8.76	1	20
Nickel	75	98	75-125	8	20	15.5	16.2	5	20
Silver	110	117	75-125	3	20	0.0463 J	0.0557 J	18 (1)	20
Thallium	86	108	75-125	9	20	0.424	0.418	2 (1)	20
Vanadium	54 (2)	137 (2)	75-125	12	20	55.9	58.6	5	20
Zinc	17 (2)	89 (2)	75-125	10	20	63.8	66.2	4	20
Batch number: 103151026003B Sample number(s): 6134958-6134965 UNSPK: 6134958 BKG: 6134958									
Selenium	92	104	75-125	8	20	0.0594 J	0.0507 J	16 (1)	20
Batch number: 103151026003C Sample number(s): 6134958-6134965 UNSPK: 6134958 BKG: 6134958									
Molybdenum	99	108	75-125	4	20	0.477	0.438	8 (1)	20
Batch number: 103151026003D Sample number(s): 6134958-6134965 UNSPK: 6134958 BKG: 6134958									
Barium	-131 (2)	-338 (2)	75-125	13	20	171	172	0	20
Batch number: 103155708003 Sample number(s): 6134958-6134965 UNSPK: 6134958 BKG: 6134958									
Aluminum	194 (2)	1220 (2)	75-125	6	20	31,200	29,500	6	20
Boron	89	88	84-115	3	20	11.3	11.3	0 (1)	20

*- Outside of specification

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Calcium	218 (2)	201 (2)	75-125	2	20	3,290	3,470	6	20
Iron	-1039 (2)	-224 (2)	75-125	3	20	26,000	25,700	1	20
Lithium	100	100	82-114	2	20	26.7	25.6	4	20
Magnesium	25 (2)	134 (2)	75-125	4	20	5,240	5,120	2	20
Manganese	88	168*	75-125	16	20	169	197	16	20
Phosphorus	84	88	75-125	1	20	131	149	13	20
Potassium	97	118	75-125	5	20	2,660	2,460	8	20
Sodium	98	97	75-125	2	20	424	425	0 (1)	20
Strontium	100	99	75-115	2	20	36.8	37.9	3	20
Tin	89	87	80-110	4	20	2.61 J	2.60 J	1 (1)	20
Titanium	151 (2)	389 (2)	75-125	14	20	1,380	1,370	1	20
Zirconium	99	98	75-125	3	20	4.21 J	5.55	27* (1)	20
Batch number: 103155711002	Sample number(s): 6134958-6134965 UNSPK: 6134958 BKG: 6134958								
Mercury	103	100	65-135	4	20	0.0113 J	0.0084 J	29* (1)	20
Batch number: 10320243201A	Sample number(s): 6134958-6134965 UNSPK: P133892 BKG: P133892								
Hexavalent Chromium by IC	88		75-125			0.24 J	0.47 J	64* (1)	20
Batch number: 10323323201B	Sample number(s): 6134958-6134964 UNSPK: P133892 BKG: P133892								
Perchlorate in Soil	116		80-120			12.4 J	9.0 U	200* (1)	15
Batch number: 10326326201A	Sample number(s): 6134958-6134965 UNSPK: 6134958 BKG: 6134958								
Fluoride by IC (solid)	56*		80-120			6.6	5.3	22*	20
Batch number: 10327327202A	Sample number(s): 6134965 UNSPK: 6134965 BKG: 6134965								
Perchlorate in Soil	120		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10313039403A	Sample number(s): 6134958-6134965 BKG: 6134958								
pH						7.62	7.63	0	1
Batch number: 10313182102A	Sample number(s): 6134958-6134965 BKG: 6134958								
Oxidation Reduction Potential						413	414	0	6
Batch number: 10314162401B	Sample number(s): 6134958-6134965 BKG: 6134962								
Moisture CDM						11.4	11.9	4	20

Surrogate Quality Control

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

Analysis Name: VOCs in Soil 8260B

Batch number: B103142AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6134958	102	106	98	97
6134960	101	101	99	96
6134962	99	96	99	96

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

Surrogate Quality Control

6134964	100	101	100	95
Blank	100	103	98	97
LCS	101	105	99	98
MS	100	102	101	98
MSD	100	106	100	103

Limits: 80-120 80-120 81-117 74-121

 Analysis Name: 1,4-Dioxane by Isotope Dil SIM
 Batch number: E103151AA
 Toluene-d8

6134966	100
Blank	99
LCS	99
LCSD	99

Limits: 80-120

 Analysis Name: 1,4-Dioxane by Isotope DL SIM
 Batch number: E103152AA
 Toluene-d8

6134958	98
6134960	98
6134962	97
6134964	97
Blank	99
LCS	98
LCSD	99

Limits: 70-130

 Analysis Name: VOCs in Water 8260B
 Batch number: Y103191AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6134966	95	96	101	98
Blank	97	96	101	99
LCS	97	101	103	102
LCSD	98	101	103	102

Limits: 86-118 80-120 88-110 86-115

 Analysis Name: Selected SVOAs in soil by SIM
 Batch number: 10316SLL026
 Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14

6134958	76	79	84
6134959	70	72	82
6134960	73	75	87
6134961	74	77	91
6134962	73	78	87
6134963	75	82	98
6134964	79	91	96
6134965	69	52	88
Blank	91	94	99

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:23 PM

Group Number: 1220276

Surrogate Quality Control

LCS	83	85	85
MS	79	82	84
MSD	82	82	88

Limits:	40-130	45-130	45-135
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Analysis Name: TCL SW846 Semivolatiles Soil

Batch number: 10316SLP026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6134958	90	93	89	83	88	97
6134959	93	94	91	84	91	96
6134960	90	91	87	84	87	92
6134961	86	89	90	83	87	96
6134962	82	86	96	83	90	86
6134963	84	89	94	83	89	89
6134964	93	94	91	84	92	97
6134965	86	89	84	84	92	94
Blank	83	87	97	84	89	85
LCS	93	98	93	88	94	90
LCSD	88	92	86	84	88	88
MS	93	96	90	86	91	93
MSD	89	92	91	85	89	90

Limits:	25-120	25-130	35-130	40-130	45-130	45-135
---------	--------	--------	--------	--------	--------	--------

Analysis Name: PCBs & PCTs in Soil

Batch number: 103160020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6134958	80	112
6134959	78	113
6134960	75	113
6134961	79	104
6134962	81	120
6134963	91	116
6134964	93	103
6134965	99	114
Blank	85	113
LCS	87	117
LCSD	82	101
MS	86	106
MSD	89	111

Limits:	53-139	45-120
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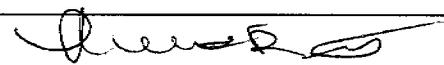
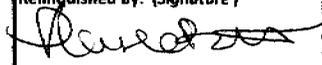
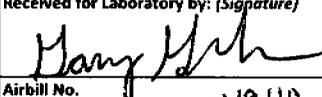
*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

13013 1220276 6134958-86

CHAIN OF CUSTODY RECORD

CDM		SSFL AREA IV COLLOCATED SOIL SAMPLING																				Other Instructions and Notes						
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																												
Samplers: (Signature) 																												
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH g/mo/d EPA 8015B	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**PH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015B		
SL-109-SA5C-SB-4.5	11.08.10	0940	soil	none	4 - Encore samplers	X	X																					
SL-109-SA5C-SB-4.0-5.0	11.08.10	0945	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-109-SA5C-SB-9.0-10.0	11.08.10	0950	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-107-SA5C-SB-4.5	11.08.10	1135	soil	none	4 - Encore samplers	X	X																					
SL-107-SA5C-SB-4.0-5.0	11.08.10	1140	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-107-SA5C-SB-9.0-10.0	11.08.10	1145	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-106-SA5C-SB-4.5	11.08.10	1555	soil	none	4 - Encore samplers	X	X																					
SL-106-SA5C-SB-4.0-5.0	11.08.10	1600	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-106-SA5C-SB-9.0-10.0	11.08.10	1605	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-108-SA5C-SB-4.5	11.08.10	1410	soil	none	4 - Encore samplers	X	X																					
SL-108-SA5C-SB-4.0-5.0	11.08.10	1415	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-108-SA5C-SB-9.0-10.0	11.08.10	1420	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
TB-110810	11.08.10	1630	water	HCl	3 - 40 ml VOA vials	X	X																					Trip blank
Relinquished by: (Signature)		Date/Time	Relinquished by: (Signature)			Date/Time	Relinquished by: (Signature)			Date/Time	Received for Laboratory by: (Signature)			Laboratory:														
		11.08.10 1645												Lancaster Laboratories, Inc.														
Received by: (Signature)		Date/Time	Received by: (Signature)			Date/Time	Received by: (Signature)			Date/Time	Airbill No.																	
											11/9/10 900																	

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 06, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/10/2010
Group Number: 1220507
SDG: DE012
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-102-SA5C-SB-4.0-5.0 Soil	6136196
SL-099-SA5C-SB-4.0-5.0 Soil	6136197
SL-099-SA5C-SB-9.0-10.0 Soil	6136198
SL-098-SA5C-SB-4.0-5.0 Soil	6136199
SL-098-SA5C-SB-9.0-10.0 Soil	6136200
TB-110910 Water	6136201
EB06-SA5C-110910 Water	6136202

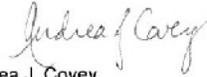
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO
1 COPY TO CDM Federal Services Program
Data Package Group

Attn: Todd Burgesser

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

Respectfully Submitted,



Andrea J. Covey
Senior Specialist

Sample Description: SL-102-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-102-SA5C-SB-4.0-5.0

LLI Sample # SW 6136196
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 10:55

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

10245 SDG#: DE012-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2 U	7.2	8.6	0.94
06192	Benzene	71-43-2	0.11 U	0.11	4.3	0.94
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3	0.94
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.3	0.94
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3	0.94
06192	Bromoform	75-25-2	0.43 U	0.43	4.3	0.94
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3	0.94
06192	2-Butanone	78-93-3	1.3 U	1.3	8.6	0.94
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3	0.94
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.3	0.94
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3	0.94
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3	0.94
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3	0.94
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3	0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.3	0.94
06192	Chloroform	67-66-3	0.13 U	0.13	4.3	0.94
06192	Chloromethane	74-87-3	0.36 U	0.36	4.3	0.94
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3	0.94
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3	0.94
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4	0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75 U	0.75	4.3	0.94
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.3	0.94
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3	0.94
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3	0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3	0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3	0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3	0.94
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3	0.94
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3	0.94
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3	0.94
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3	0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.3	0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3	0.94
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3	0.94
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3	0.94
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3	0.94
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3	0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3	0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3	0.94
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.3	0.94
06192	Freon 113	76-13-1	0.12 U	0.12	4.3	0.94
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4	0.94
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3	0.94
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.6	0.94
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.3	0.94
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3	0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.3	0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.6	0.94
06192	Methylene Chloride	75-09-2	1.9 J	0.26	4.3	0.94
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.3	0.94

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

Sample Description: SL-102-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-102-SA5C-SB-4.0-5.0

LLI Sample # SW 6136196
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 10:55

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

10245 SDG#: DE012-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.11 U	0.11 ug/kg	4.3 ug/kg	0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12 ug/kg	4.3 ug/kg	0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25 ug/kg	4.3 ug/kg	0.94
06192	Tetrachloroethene	127-18-4	0.22 U	0.22 ug/kg	4.3 ug/kg	0.94
06192	Toluene	108-88-3	0.47 J	0.09 ug/kg	4.3 ug/kg	0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15 ug/kg	4.3 ug/kg	0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19 ug/kg	4.3 ug/kg	0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22 ug/kg	4.3 ug/kg	0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29 ug/kg	4.3 ug/kg	0.94
06192	Trichloroethene	79-01-6	0.16 U	0.16 ug/kg	4.3 ug/kg	0.94
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31 ug/kg	4.3 ug/kg	0.94
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36 ug/kg	4.3 ug/kg	0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43 ug/kg	4.3 ug/kg	0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11 ug/kg	4.3 ug/kg	0.94
06192	Vinyl Chloride	75-01-4	0.22 U	0.22 ug/kg	4.3 ug/kg	0.94
06192	m+p-Xylene	179601-23-1	0.18 U	0.18 ug/kg	4.3 ug/kg	0.94
06192	o-Xylene	95-47-6	0.18 U	0.18 ug/kg	4.3 ug/kg	0.94
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.2 U	5.2 ug/kg	16 ug/kg	22.73
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190 U	190 ug/kg	570 ug/kg	1
04688	Benzidine	92-87-5	1,300 U	1,300 ug/kg	3,800 ug/kg	1
04688	Benzoic acid	65-85-0	190 U	190 ug/kg	570 ug/kg	1
04688	Benzyl alcohol	100-51-6	190 U	190 ug/kg	570 ug/kg	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19 ug/kg	190 ug/kg	1
04688	Carbazole	86-74-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chloro-3-methylphenol	59-50-7	38 U	38 ug/kg	190 ug/kg	1
04688	4-Chloroaniline	106-47-8	77 U	77 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chloronaphthalene	91-58-7	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chlorophenol	95-57-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38 U	38 ug/kg	190 ug/kg	1
04688	Dibenzofuran	132-64-9	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19 ug/kg	190 ug/kg	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110 ug/kg	380 ug/kg	1
04688	2,4-Dichlorophenol	120-83-2	19 U	19 ug/kg	190 ug/kg	1
04688	2,4-Dimethylphenol	105-67-9	38 U	38 ug/kg	190 ug/kg	1
04688	3,5-Dimethylphenol	108-68-9	38 U	38 ug/kg	190 ug/kg	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190 U	190 ug/kg	570 ug/kg	1
04688	2,4-Dinitrophenol	51-28-5	770 U	770 ug/kg	2,300 ug/kg	1
04688	2,4-Dinitrotoluene	121-14-2	38 U	38 ug/kg	190 ug/kg	1
04688	2,6-Dinitrotoluene	606-20-2	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Diphenylhydrazine	122-66-7	19 U	19 ug/kg	190 ug/kg	1

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

Sample Description: SL-102-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-102-SA5C-SB-4.0-5.0

LLI Sample # SW 6136196
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 10:55

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

10245 SDG#: DE012-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	77	U 77	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	570	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
A separate LCS/LCSD for 3,5-dimethylphenol was performed. The MS/MSD associated with this sample was not spiked with 3,5-dimethylphenol.						
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.8	J 0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	3.6	U 0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.85	J 0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21	1
10138	Chrysene	218-01-9	3.0	U 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U 6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9	1

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

Sample Description: SL-102-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-102-SA5C-SB-4.0-5.0

LLI Sample # SW 6136196
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 10:55

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

10245 SDG#: DE012-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/kg	ug/kg	ug/kg	
10138	Naphthalene	91-20-3	0.77 U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77 U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9 U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77 U	0.77	1.9	1
10138	Pyrene	129-00-0	1.0 J	0.77	1.9	1
Perchlorate SW-846 6850 1/2007						
			ug/kg	ug/kg	ug/kg	
06557	Perchlorate in Soil	LC/MS/MS 14797-73-0	2.4 U	2.4	5.7	1
Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.57 U	0.57	2.0	1
10225	PCB-1232	11141-16-5	0.60 U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.57 U	0.57	2.0	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38 U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38 U	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	2.0	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals SW-846 6010B						
			mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,300	5.55	22.1	1
07914	Boron	7440-42-8	0.983 U	0.983	5.52	1
01650	Calcium	7440-70-2	3,830	6.77	22.1	1
01654	Iron	7439-89-6	23,000	5.20	22.1	1
01656	Lithium	7439-93-2	25.9	0.24	2.2	1
01657	Magnesium	7439-95-4	4,830	2.80	11.0	1
06958	Manganese	7439-96-5	349	0.0861	0.552	1
10145	Phosphorus	7723-14-0	153	0.618	11.0	1
01662	Potassium	7440-09-7	2,550	19.9	55.2	1
01667	Sodium	7440-23-5	716	41.2	110	1
07968	Strontium	7440-24-6	36.6	0.0684	0.552	1
06969	Tin	7440-31-5	2.82 J	1.10	11.0	1
06970	Titanium	7440-32-6	1,530	2.10	5.52	5
10146	Zirconium	7440-67-7	4.49 J	0.927	5.52	1
SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0689 U	0.0689	0.230	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.54	0.0689	0.459	2
06126	Barium	7440-39-3	157	0.124	0.459	2
06127	Beryllium	7440-41-7	1.30	0.0184	0.115	2

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

Sample Description: SL-102-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-102-SA5C-SB-4.0-5.0

LLI Sample # SW 6136196
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 10:55

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

10245 SDG#: DE012-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	0.0916 J	0.0413	0.115	2
06131	Chromium	7440-47-3	29.9	0.138	0.459	2
06132	Cobalt	7440-48-4	12.5	0.0230	0.115	2
06133	Copper	7440-50-8	10.0	0.0758	0.459	2
06135	Lead	7439-92-1	8.12	0.0119	0.230	2
06138	Molybdenum	7439-98-7	0.685	0.0574	0.115	2
06139	Nickel	7440-02-0	20.5	0.115	0.459	2
06141	Selenium	7782-49-2	0.0855 J	0.0459	0.459	2
06142	Silver	7440-22-4	0.0816 J	0.0138	0.115	2
06145	Thallium	7440-28-0	0.363	0.0344	0.115	2
06148	Vanadium	7440-62-2	56.3	0.0253	0.115	2
06149	Zinc	7440-66-6	65.4	0.643	3.44	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0073 J	0.0032	0.113	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	12.4	0.92	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.3 U	10.3	34.4	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.34 J	0.23	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	443	10.0	10.0	1
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	6.99	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	12.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-102-SA5C-SB-4.5.

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

Sample Description: SL-102-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-102-SA5C-SB-4.0-5.0

LLI Sample # SW 6136196
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 10:55

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 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

10245 SDG#: DE012-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103191AA	11/15/2010 17:20	Laura M Krieger	0.94
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103152AA	11/11/2010 18:34	Sara E Johnson	22.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031422898	11/10/2010 23:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201031422898	11/10/2010 23:22	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201031422898	11/10/2010 23:22	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031422898	11/10/2010 23:19	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 09:27	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 05:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
06557	Perchlorate in Soil LC/MS/MS	SW-846 6850 1/2007	1	103140018A	11/11/2010 20:35	Richard A Shober	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/16/2010 23:44	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103140018A	11/11/2010 09:20	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/18/2010 00:15	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/14/2010 06:23	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/18/2010 00:15	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/18/2010 00:15	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 06:23	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/18/2010 00:15	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/18/2010 00:15	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/18/2010 00:15	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:23	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:23	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103155708003	11/18/2010 00:19	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 06:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 13:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 13:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 13:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2

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

Sample Description: SL-102-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-102-SA5C-SB-4.0-5.0

LLI Sample # SW 6136196
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 10:55

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

10245 SDG#: DE012-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 13:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201A	11/23/2010 15:35	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202A	11/23/2010 13:54	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10324243201A	11/22/2010 08:40	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201A	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202A	11/23/2010 12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10315182101A	11/11/2010 14:15	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10314039403A	11/10/2010 14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010 04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401A	11/18/2010 08:33	William C Schwebel	1

Sample Description: SL-099-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-4.0-5.0

LLI Sample # SW 6136197
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09945 SDG#: DE012-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5 U	6.5	7.7	0.85
06192	Benzene	71-43-2	0.1 U	0.1	3.9	0.85
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9	0.85
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9	0.85
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9	0.85
06192	Bromoform	75-25-2	0.39 U	0.39	3.9	0.85
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9	0.85
06192	2-Butanone	78-93-3	1.2 U	1.2	7.7	0.85
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9	0.85
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9	0.85
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9	0.85
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.9	0.85
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9	0.85
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9	0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9	0.85
06192	Chloroform	67-66-3	0.12 U	0.12	3.9	0.85
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9	0.85
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.9	0.85
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.9	0.85
06192	Chlorotrifluoroethene	79-38-9	0.48 U	0.48	4.8	0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68 U	0.68	3.9	0.85
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.9	0.85
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.9	0.85
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9	0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9	0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9	0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9	0.85
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9	0.85
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9	0.85
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.9	0.85
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9	0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.9	0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9	0.85
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.9	0.85
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9	0.85
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.9	0.85
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9	0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9	0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.9	0.85
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9	0.85
06192	Freon 113	76-13-1	0.11 U	0.11	3.9	0.85
06192	Freon 133a	75-88-7	0.48 U	0.48	4.8	0.85
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.9	0.85
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.7	0.85
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9	0.85
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9	0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.9	0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.7	0.85
06192	Methylene Chloride	75-09-2	2.1 J	0.23	3.9	0.85
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9	0.85

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

Sample Description: SL-099-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-4.0-5.0

LLI Sample # SW 6136197
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09945 SDG#: DE012-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1 ug/kg	3.9 ug/kg	0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11 ug/kg	3.9 ug/kg	0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22 ug/kg	3.9 ug/kg	0.85
06192	Tetrachloroethene	127-18-4	0.19 U	0.19 ug/kg	3.9 ug/kg	0.85
06192	Toluene	108-88-3	0.09 J	0.08 ug/kg	3.9 ug/kg	0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13 ug/kg	3.9 ug/kg	0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17 ug/kg	3.9 ug/kg	0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19 ug/kg	3.9 ug/kg	0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26 ug/kg	3.9 ug/kg	0.85
06192	Trichloroethene	79-01-6	0.14 U	0.14 ug/kg	3.9 ug/kg	0.85
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28 ug/kg	3.9 ug/kg	0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32 ug/kg	3.9 ug/kg	0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39 ug/kg	3.9 ug/kg	0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1 ug/kg	3.9 ug/kg	0.85
06192	Vinyl Chloride	75-01-4	0.19 U	0.19 ug/kg	3.9 ug/kg	0.85
06192	m+p-Xylene	179601-23-1	0.16 U	0.16 ug/kg	3.9 ug/kg	0.85
06192	o-Xylene	95-47-6	0.16 U	0.16 ug/kg	3.9 ug/kg	0.85
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.7 U	4.7 ug/kg	14 ug/kg	20.76
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190 U	190 ug/kg	570 ug/kg	1
04688	Benzidine	92-87-5	1,300 U	1,300 ug/kg	3,800 ug/kg	1
04688	Benzoic acid	65-85-0	190 U	190 ug/kg	570 ug/kg	1
04688	Benzyl alcohol	100-51-6	190 U	190 ug/kg	570 ug/kg	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19 ug/kg	190 ug/kg	1
04688	Carbazole	86-74-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chloro-3-methylphenol	59-50-7	38 U	38 ug/kg	190 ug/kg	1
04688	4-Chloroaniline	106-47-8	76 U	76 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chloronaphthalene	91-58-7	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chlorophenol	95-57-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38 U	38 ug/kg	190 ug/kg	1
04688	Dibenzofuran	132-64-9	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19 ug/kg	190 ug/kg	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110 ug/kg	380 ug/kg	1
04688	2,4-Dichlorophenol	120-83-2	19 U	19 ug/kg	190 ug/kg	1
04688	2,4-Dimethylphenol	105-67-9	38 U	38 ug/kg	190 ug/kg	1
04688	3,5-Dimethylphenol	108-68-9	38 U	38 ug/kg	190 ug/kg	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190 U	190 ug/kg	570 ug/kg	1
04688	2,4-Dinitrophenol	51-28-5	760 U	760 ug/kg	2,300 ug/kg	1
04688	2,4-Dinitrotoluene	121-14-2	38 U	38 ug/kg	190 ug/kg	1
04688	2,6-Dinitrotoluene	606-20-2	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Diphenylhydrazine	122-66-7	19 U	19 ug/kg	190 ug/kg	1

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

Sample Description: SL-099-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-4.0-5.0

LLI Sample # SW 6136197
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09945 SDG#: DE012-02

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

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

Sample Description: SL-099-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-4.0-5.0

LLI Sample # SW 6136197
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09945 SDG#: DE012-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Naphthalene	91-20-3	0.76 U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9	1

Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.57 U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57 U	0.57	1.9	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B						
			mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,100	5.64	22.4	1
07914	Boron	7440-42-8	0.998 U	0.998	5.61	1
01650	Calcium	7440-70-2	3,340	6.87	22.4	1
01654	Iron	7439-89-6	22,000	5.28	22.4	1
01656	Lithium	7439-93-2	24.3	0.25	2.2	1
01657	Magnesium	7439-95-4	4,720	2.85	11.2	1
06958	Manganese	7439-96-5	303	0.0875	0.561	1
10145	Phosphorus	7723-14-0	144	0.628	11.2	1
01662	Potassium	7440-09-7	2,550	20.2	56.1	1
01667	Sodium	7440-23-5	691	41.8	112	1
07968	Strontium	7440-24-6	34.6	0.0695	0.561	1
06969	Tin	7440-31-5	2.55 J	1.12	11.2	1
06970	Titanium	7440-32-6	1,560	2.13	5.61	5
10146	Zirconium	7440-67-7	4.79 J	0.942	5.61	1

SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.152 J	0.0666	0.222	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.2	0.0666	0.444	2
06126	Barium	7440-39-3	141	0.120	0.444	2
06127	Beryllium	7440-41-7	1.31	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.109 J	0.0400	0.111	2
06131	Chromium	7440-47-3	28.9	0.133	0.444	2
06132	Cobalt	7440-48-4	13.4	0.0222	0.111	2

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

Sample Description: SL-099-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-4.0-5.0

LLI Sample # SW 6136197
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09945 SDG#: DE012-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06133	Copper	7440-50-8	10.3	0.0733	0.444	2
06135	Lead	7439-92-1	10.1	0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.853	0.0555	0.111	2
06139	Nickel	7440-02-0	19.9	0.111	0.444	2
06141	Selenium	7782-49-2	0.0914 J	0.0444	0.444	2
06142	Silver	7440-22-4	0.0600 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.366	0.0333	0.111	2
06148	Vanadium	7440-62-2	59.2	0.0244	0.111	2
06149	Zinc	7440-66-6	64.3	0.622	3.33	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0056 J	0.0031	0.109	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	10.9	0.91	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.2 U	10.2	34.0	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.23 U	0.23	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	468	10.0	10.0	1
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.67	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	11.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-099-SA5C-SB-4.5.

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

Sample Description: SL-099-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-4.0-5.0

LLI Sample # SW 6136197
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09945 SDG#: DE012-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103191AA	11/15/2010 17:42	Laura M Krieger	0.85
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103152AA	11/11/2010 18:54	Sara E Johnson	20.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031422898	11/10/2010 23:12	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201031422898	11/10/2010 23:22	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201031422898	11/10/2010 23:23	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031422898	11/10/2010 23:10	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 09:52	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SL026	11/30/2010 11:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/17/2010 00:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/18/2010 00:30	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/14/2010 06:26	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/18/2010 00:30	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/18/2010 00:30	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 06:26	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/18/2010 00:30	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:26	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/18/2010 00:30	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/18/2010 00:30	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:26	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103155708003	11/18/2010 00:34	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 06:26	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 13:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 13:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 13:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 13:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:45	Nelli S Markaryan	1

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

Sample Description: SL-099-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-4.0-5.0

LLI Sample # SW 6136197
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09945 SDG#: DE012-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201A	11/23/2010 15:50	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202A	11/23/2010 14:18	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10324243201A	11/22/2010 08:54	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201A	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202A	11/23/2010 12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10315182101A	11/11/2010 14:15	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10314039403A	11/10/2010 14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010 04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401A	11/18/2010 08:33	William C Schwebel	1

Sample Description: SL-099-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-9.0-10.0

LLI Sample # SW 6136198
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:20

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09991 SDG#: DE012-03

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

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

Sample Description: SL-099-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-9.0-10.0

LLI Sample # SW 6136198
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:20

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09991 SDG#: DE012-03

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

A separate LCS/LCSD for 3,5-dimethylphenol was performed. The MS/MSD associated with this sample was not spiked with 3,5-dimethylphenol.

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

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg		
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U 0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U 0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U 0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U 0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U 0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U 0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36	U 0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U 0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U 0.36	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Description: SL-099-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-9.0-10.0

LLI Sample # SW 6136198
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:20

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09991 SDG#: DE012-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,400	5.46	21.7	1
07914	Boron	7440-42-8	0.966 U	0.966	5.43	1
01650	Calcium	7440-70-2	2,720	6.65	21.7	1
01654	Iron	7439-89-6	19,500	5.11	21.7	1
01656	Lithium	7439-93-2	24.4	0.24	2.2	1
01657	Magnesium	7439-95-4	4,400	2.76	10.9	1
06958	Manganese	7439-96-5	212	0.0847	0.543	1
10145	Phosphorus	7723-14-0	94.0	0.608	10.9	1
01662	Potassium	7440-09-7	1,680	19.5	54.3	1
01667	Sodium	7440-23-5	653	40.5	109	1
07968	Strontium	7440-24-6	31.2	0.0673	0.543	1
06969	Tin	7440-31-5	2.72 J	1.09	10.9	1
06970	Titanium	7440-32-6	1,430	2.06	5.43	5
10146	Zirconium	7440-67-7	3.01 J	0.912	5.43	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0857 J	0.0651	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	4.67	0.0651	0.434	2
06126	Barium	7440-39-3	40.9	0.117	0.434	2
06127	Beryllium	7440-41-7	0.617	0.0174	0.109	2
06128	Cadmium	7440-43-9	0.0479 J	0.0391	0.109	2
06131	Chromium	7440-47-3	22.0	0.130	0.434	2
06132	Cobalt	7440-48-4	3.61	0.0217	0.109	2
06133	Copper	7440-50-8	8.61	0.0717	0.434	2
06135	Lead	7439-92-1	4.58	0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.197	0.0543	0.109	2
06139	Nickel	7440-02-0	9.44	0.109	0.434	2
06141	Selenium	7782-49-2	0.0434 U	0.0434	0.434	2
06142	Silver	7440-22-4	0.0377 J	0.0130	0.109	2
06145	Thallium	7440-28-0	0.291	0.0326	0.109	2
06148	Vanadium	7440-62-2	35.9	0.0239	0.109	2
06149	Zinc	7440-66-6	48.5	0.608	3.26	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0207 J	0.0031	0.109	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	5.3	0.88	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.9 U	9.9	32.9	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.22 U	0.22	1.1	1

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

Sample Description: SL-099-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-9.0-10.0

LLI Sample # SW 6136198
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:20

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09991 SDG#: DE012-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	436	10.0	10.0	1
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.21	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	8.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 10:18	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 12:20	Joseph M Gambler	1
10479	BNA Soil Extraction	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/17/2010 00:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/18/2010 00:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/14/2010 06:29	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/18/2010 00:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/18/2010 00:37	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 06:29	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/18/2010 00:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:29	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:29	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/18/2010 00:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/18/2010 00:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:29	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:29	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103155708003	11/18/2010 00:41	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 06:29	John W Yanzuk II	1

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

Sample Description: SL-099-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-099-SA5C-SB-9.0-10.0

LLI Sample # SW 6136198
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 15:20

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09991 SDG#: DE012-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 13:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 13:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:47	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201B	11/23/2010 16:51	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202A	11/23/2010 15:06	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10324243201A	11/22/2010 09:15	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201B	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202A	11/23/2010 12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10315182101A	11/11/2010 14:15	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10314039403A	11/10/2010 14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010 04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401A	11/18/2010 08:33	William C Schwebel	1

Sample Description: SL-098-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-4.0-5.0

LLI Sample # SW 6136199
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:10

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09845 SDG#: DE012-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.9	0.89
06192	Benzene	71-43-2	0.1 U	0.1	4.0	0.89
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0	0.89
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0	0.89
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0	0.89
06192	Bromoform	75-25-2	0.40 U	0.40	4.0	0.89
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0	0.89
06192	2-Butanone	78-93-3	1.2 U	1.2	7.9	0.89
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0	0.89
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0	0.89
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0	0.89
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0	0.89
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0	0.89
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0	0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0	0.89
06192	Chloroform	67-66-3	0.12 U	0.12	4.0	0.89
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0	0.89
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0	0.89
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0	0.89
06192	Chlorotrifluoroethene	79-38-9	0.50 U	0.50	5.0	0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69 U	0.69	4.0	0.89
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0	0.89
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0	0.89
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0	0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0	0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0	0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0	0.89
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0	0.89
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	4.0	0.89
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0	0.89
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0	0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0	0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0	0.89
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0	0.89
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0	0.89
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0	0.89
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0	0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0	0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0	0.89
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0	0.89
06192	Freon 113	76-13-1	0.11 U	0.11	4.0	0.89
06192	Freon 133a	75-88-7	0.50 U	0.50	5.0	0.89
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0	0.89
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.9	0.89
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0	0.89
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0	0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0	0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	7.9	0.89
06192	Methylene Chloride	75-09-2	5.6	0.24	4.0	0.89
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0	0.89

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

Sample Description: SL-098-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-4.0-5.0

LLI Sample # SW 6136199
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:10

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09845 SDG#: DE012-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1 ug/kg	4.0 ug/kg	0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11 ug/kg	4.0 ug/kg	0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23 ug/kg	4.0 ug/kg	0.89
06192	Tetrachloroethene	127-18-4	0.20 U	0.20 ug/kg	4.0 ug/kg	0.89
06192	Toluene	108-88-3	0.16 J	0.08 ug/kg	4.0 ug/kg	0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14 ug/kg	4.0 ug/kg	0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18 ug/kg	4.0 ug/kg	0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20 ug/kg	4.0 ug/kg	0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27 ug/kg	4.0 ug/kg	0.89
06192	Trichloroethene	79-01-6	0.15 U	0.15 ug/kg	4.0 ug/kg	0.89
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29 ug/kg	4.0 ug/kg	0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33 ug/kg	4.0 ug/kg	0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40 ug/kg	4.0 ug/kg	0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1 ug/kg	4.0 ug/kg	0.89
06192	Vinyl Chloride	75-01-4	0.20 U	0.20 ug/kg	4.0 ug/kg	0.89
06192	m+p-Xylene	179601-23-1	0.17 U	0.17 ug/kg	4.0 ug/kg	0.89
06192	o-Xylene	95-47-6	0.17 U	0.17 ug/kg	4.0 ug/kg	0.89

The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample.

GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1 U	5.1 ug/kg	15 ug/kg	22.69

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190 U	190 ug/kg	560 ug/kg	1
04688	Benzidine	92-87-5	1,300 U	1,300 ug/kg	3,700 ug/kg	1
04688	Benzoic acid	65-85-0	190 U	190 ug/kg	560 ug/kg	1
04688	Benzyl alcohol	100-51-6	190 U	190 ug/kg	560 ug/kg	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19 ug/kg	190 ug/kg	1
04688	Carbazole	86-74-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chloro-3-methylphenol	59-50-7	37 U	37 ug/kg	190 ug/kg	1
04688	4-Chloroaniline	106-47-8	74 U	74 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19 ug/kg	190 ug/kg	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chloronaphthalene	91-58-7	19 U	19 ug/kg	190 ug/kg	1
04688	2-Chlorophenol	95-57-8	19 U	19 ug/kg	190 ug/kg	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37 U	37 ug/kg	190 ug/kg	1
04688	Dibenzofuran	132-64-9	19 U	19 ug/kg	190 ug/kg	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19 ug/kg	190 ug/kg	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19 ug/kg	190 ug/kg	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110 ug/kg	370 ug/kg	1
04688	2,4-Dichlorophenol	120-83-2	19 U	19 ug/kg	190 ug/kg	1
04688	2,4-Dimethylphenol	105-67-9	37 U	37 ug/kg	190 ug/kg	1
04688	3,5-Dimethylphenol	108-68-9	37 U	37 ug/kg	190 ug/kg	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190 U	190 ug/kg	560 ug/kg	1
04688	2,4-Dinitrophenol	51-28-5	740 U	740 ug/kg	2,200 ug/kg	1

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

Sample Description: SL-098-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-4.0-5.0

LLI Sample # SW 6136199
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:10

CDM Federal Programs Corp.

Submitted: 11/10/2010 09:00

14420 Albemarle Point Place

Reported: 12/06/2010 16:18

Suite 210

Chantilly VA 20151

09845 SDG#: DE012-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	37	U 37	190	1
04688	4-Methylphenol	106-44-5	37	U 37	190	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	37	U 37	190	1
04688	4-Nitroaniline	100-01-6	74	U 74	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
A separate LCS/LCSD for 3,5-dimethylphenol was performed. The MS/MSD associated with this sample was not spiked with 3,5-dimethylphenol.						
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9	1

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

Sample Description: SL-098-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-4.0-5.0

LLI Sample # SW 6136199
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:10

CDM Federal Programs Corp.

Submitted: 11/10/2010 09:00

14420 Albemarle Point Place

Reported: 12/06/2010 16:18

Suite 210

Chantilly VA 20151

09845 SDG#: DE012-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74 U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74 U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74 U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74 U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9	1

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg		
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	SW-846 6010B	mg/kg	mg/kg	mg/kg		
01643	Aluminum	7429-90-5	29,000	5.39	21.4	1
07914	Boron	7440-42-8	12.5	0.953	5.35	1
01650	Calcium	7440-70-2	2,930	6.56	21.4	1
01654	Iron	7439-89-6	25,800	5.04	21.4	1
01656	Lithium	7439-93-2	27.4	0.24	2.1	1
01657	Magnesium	7439-95-4	5,240	2.72	10.7	1
06958	Manganese	7439-96-5	219	0.0835	0.535	1
10145	Phosphorus	7723-14-0	148	0.600	10.7	1
01662	Potassium	7440-09-7	2,900	19.3	53.5	1
01667	Sodium	7440-23-5	521	39.9	107	1
07968	Strontium	7440-24-6	38.5	0.0664	0.535	1
06969	Tin	7440-31-5	2.76 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,620	2.03	5.35	5
10146	Zirconium	7440-67-7	4.63 J	0.899	5.35	1

	SW-846 6020	mg/kg	mg/kg	mg/kg		
06124	Antimony	7440-36-0	0.161 J	0.0655	0.218	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.3	0.0655	0.437	2
06126	Barium	7440-39-3	186	0.118	0.437	2
06127	Beryllium	7440-41-7	1.25	0.0175	0.109	2

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

Sample Description: SL-098-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-4.0-5.0

LLI Sample # SW 6136199
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:10

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09845 SDG#: DE012-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	0.0929 J	0.0393	0.109	2
06131	Chromium	7440-47-3	32.7	0.131	0.437	2
06132	Cobalt	7440-48-4	11.8	0.0218	0.109	2
06133	Copper	7440-50-8	13.1	0.0721	0.437	2
06135	Lead	7439-92-1	13.5	0.0114	0.218	2
06138	Molybdenum	7439-98-7	1.00	0.0546	0.109	2
06139	Nickel	7440-02-0	19.7	0.109	0.437	2
06141	Selenium	7782-49-2	0.104 J	0.0437	0.437	2
06142	Silver	7440-22-4	0.0425 J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.443	0.0328	0.109	2
06148	Vanadium	7440-62-2	68.7	0.0240	0.109	2
06149	Zinc	7440-66-6	81.2	0.611	3.28	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.106	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	10.3	0.89	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.0 U	10.0	33.4	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.22 U	0.22	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	459	10.0	10.0	1
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.38	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	10.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-098-SA5C-SB-4.5.

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

Sample Description: SL-098-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-4.0-5.0

LLI Sample # SW 6136199
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:10

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09845 SDG#: DE012-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103191AA	11/15/2010 18:05	Laura M Krieger	0.89
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103152AA	11/11/2010 19:14	Sara E Johnson	22.69
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031422898	11/10/2010 23:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201031422898	11/10/2010 23:23	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201031422898	11/10/2010 23:23	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031422898	11/10/2010 23:15	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 10:44	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 12:55	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/17/2010 00:40	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/18/2010 00:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/18/2010 00:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/18/2010 00:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/18/2010 00:45	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 06:33	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/18/2010 00:45	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:33	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:33	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/18/2010 00:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/18/2010 00:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:33	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:33	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103155708003	11/18/2010 00:49	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 06:33	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010 13:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010 13:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010 13:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010 13:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010 19:48	Nelli S Markaryan	1

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

Sample Description: SL-098-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-4.0-5.0

LLI Sample # SW 6136199
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:10

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09845 SDG#: DE012-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010 12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010 10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010 12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201B	11/23/2010 17:06	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202A	11/23/2010 15:30	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10324243201A	11/22/2010 09:29	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201B	11/22/2010 13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202A	11/23/2010 12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10315182101A	11/11/2010 14:15	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10314039403A	11/10/2010 14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010 04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401A	11/18/2010 08:33	William C Schwebel	1

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



Analysis Report

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

Sample Description: SL-098-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-9.0-10.0

LLI Sample # SW 6136200
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09891 SDG#: DE012-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	570	1
04688	Benzyl alcohol	100-51-6	190	U 190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	76	U 76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	76	U 76	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	570	1
04688	Phenol	108-95-2	19	U 19	190	1

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

Sample Description: SL-098-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-9.0-10.0

LLI Sample # SW 6136200
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09891 SDG#: DE012-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1

A separate LCS/LCSD for 3,5-dimethylphenol was performed. The MS/MSD associated with this sample was not spiked with 3,5-dimethylphenol.

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U 0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U 0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U 0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	20	1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U 6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U 0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U 0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U 0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U 0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U 6.8	20	1
10138	Phenanthrene	85-01-8	0.76	U 0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U 0.76	1.9	1

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg		
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U 0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57	U 0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59	U 0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57	U 0.57	1.9	1
10225	PCB-1248	12672-29-6	0.38	U 0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U 0.38	1.9	1
10225	PCB-1260	11096-82-5	0.38	U 0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38	U 0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U 0.38	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

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

Sample Description: SL-098-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-9.0-10.0

LLI Sample # SW 6136200
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09891 SDG#: DE012-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	30,800	5.56	22.1	1
07914	Boron	7440-42-8	12.7	0.983	5.52	1
01650	Calcium	7440-70-2	3,320	6.77	22.1	1
01654	Iron	7439-89-6	26,900	5.20	22.1	1
01656	Lithium	7439-93-2	29.7	0.24	2.2	1
01657	Magnesium	7439-95-4	5,630	2.81	11.0	1
06958	Manganese	7439-96-5	195	0.0862	0.552	1
10145	Phosphorus	7723-14-0	141	0.619	11.0	1
01662	Potassium	7440-09-7	3,120	19.9	55.2	1
01667	Sodium	7440-23-5	557	41.2	110	1
07968	Strontium	7440-24-6	41.1	0.0685	0.552	1
06969	Tin	7440-31-5	2.82 J	1.10	11.0	1
06970	Titanium	7440-32-6	1,740	2.10	5.52	5
10146	Zirconium	7440-67-7	4.52 J	0.928	5.52	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0974 J	0.0676	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.95	0.0676	0.451	2
06126	Barium	7440-39-3	162	0.122	0.451	2
06127	Beryllium	7440-41-7	1.09	0.0180	0.113	2
06128	Cadmium	7440-43-9	0.0465 J	0.0406	0.113	2
06131	Chromium	7440-47-3	29.1	0.135	0.451	2
06132	Cobalt	7440-48-4	8.80	0.0225	0.113	2
06133	Copper	7440-50-8	11.3	0.0743	0.451	2
06135	Lead	7439-92-1	9.02	0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.768	0.0563	0.113	2
06139	Nickel	7440-02-0	17.2	0.113	0.451	2
06141	Selenium	7782-49-2	0.0934 J	0.0451	0.451	2
06142	Silver	7440-22-4	0.0451 J	0.0135	0.113	2
06145	Thallium	7440-28-0	0.407	0.0338	0.113	2
06148	Vanadium	7440-62-2	59.5	0.0248	0.113	2
06149	Zinc	7440-66-6	74.6	0.631	3.38	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0133 J	0.0032	0.111	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	9.8	0.91	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.2 U	10.2	34.1	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.23 U	0.23	1.1	1

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

Sample Description: SL-098-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-9.0-10.0

LLI Sample # SW 6136200
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09891 SDG#: DE012-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	446	10.0	10.0	1
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.73	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	12.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10316SLP026	11/17/2010 11:10	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10316SLL026	11/30/2010 13:30	Joseph M Gambler	1
10479	BNA Soil Extraction	SW-846 3550B	1	10316SLL026	11/14/2010 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10316SLP026	11/15/2010 03:00	Roman Kuropatkin	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103160020A	11/17/2010 00:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103160020A	11/15/2010 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103155708003	11/18/2010 00:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103155708003	11/18/2010 00:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103155708003	11/18/2010 00:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103155708003	11/18/2010 00:52	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103155708003	11/14/2010 06:43	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103155708003	11/18/2010 00:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103155708003	11/14/2010 06:43	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103155708003	11/14/2010 06:43	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103155708003	11/18/2010 00:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103155708003	11/18/2010 00:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103155708003	11/14/2010 06:43	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103155708003	11/14/2010 06:43	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103155708003	11/18/2010 00:56	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103155708003	11/14/2010 06:43	John W Yanzuk II	1

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

Sample Description: SL-098-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-098-SA5C-SB-9.0-10.0

LLI Sample # SW 6136200
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 13:15

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

09891 SDG#: DE012-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103151026003D	11/17/2010	13:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103151026003C	11/17/2010	13:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103151026003B	11/17/2010	13:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103151026003A	11/17/2010	13:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103155711002	11/12/2010	19:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103155708003	11/11/2010	12:15	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103151026003	11/11/2010	10:54	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103155711002	11/11/2010	12:43	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10326326201B	11/23/2010	17:21	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202A	11/23/2010	15:54	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10324243201A	11/22/2010	09:36	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10326326201B	11/22/2010	13:10	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202A	11/23/2010	12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10315182101A	11/11/2010	14:15	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10314039403A	11/10/2010	14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010	04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401A	11/18/2010	08:33	William C Schwebel	1

Sample Description: TB-110910 Water
 SSFL Area IV Collocated Soil Sampling
 TB-110910

LLI Sample # WW 6136201
 LLI Group # 1220507
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 16:00

CDM Federal Programs Corp.

Submitted: 11/10/2010 09:00

14420 Albemarle Point Place

Reported: 12/06/2010 16:18

Suite 210

Chantilly VA 20151

TB109 SDG#: DE012-06TB

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

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



Analysis Report

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

Sample Description: TB-110910 Water
 SSFL Area IV Collocated Soil Sampling
 TB-110910

LLI Sample # WW 6136201
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 16:00

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

TB109 SDG#: DE012-06TB

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103191AA	11/15/2010 12:38	Nicholas R Rossi	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103151AA	11/11/2010 13:06	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103151AA	11/11/2010 13:06	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103191AA	11/15/2010 12:38	Nicholas R Rossi	1

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



Analysis Report

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

Sample Description: EB06-SA5C-110910 Water
 SSFL Area IV Collocated Soil Sampling
 EB06-SA5C-110910

LLI Sample # WW 6136202
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 12:00

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

EB-06 SDG#: DE012-07EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1 U	1	5	1
04678	Benzidine	92-87-5	20 U	20	60	1
04678	Benzoic acid	65-85-0	6 U	6	15	1
04678	Benzyl alcohol	100-51-6	5 U	5	15	1
04678	4-Bromophenyl-phenylether	101-55-3	1 U	1	5	1
04678	Carbazole	86-74-8	1 U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1 U	1	5	1
04678	4-Chloroaniline	106-47-8	1 U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1 U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1 U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1 U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2 U	2	5	1
04678	2-Chlorophenol	95-57-8	1 U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2 U	2	5	1
04678	Dibenzofuran	132-64-9	1 U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2 U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1 U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
04678	3,5-Dimethylphenol	108-68-9	3 U	3	10	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5 U	5	15	1
04678	2,4-Dinitrophenol	51-28-5	10 U	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	1 U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1 U	1	5	1
04678	Hexachlorobenzene	118-74-1	1 U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1 U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5 U	5	15	1
04678	Hexachloroethane	67-72-1	1 U	1	5	1
04678	Isophorone	78-59-1	1 U	1	5	1
04678	2-Methylphenol	95-48-7	1 U	1	5	1
04678	4-Methylphenol	106-44-5	2 U	2	5	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1 U	1	5	1
04678	3-Nitroaniline	99-09-2	1 U	1	5	1
04678	4-Nitroaniline	100-01-6	1 U	1	5	1
04678	Nitrobenzene	98-95-3	1 U	1	5	1
04678	2-Nitrophenol	88-75-5	1 U	1	5	1
04678	4-Nitrophenol	100-02-7	10 U	10	30	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1 U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2 U	2	5	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3 U	3	15	1
04678	Phenol	108-95-2	1 U	1	5	1

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

Sample Description: EB06-SA5C-110910 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA5C-110910

LLI Sample # WW 6136202
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 12:00

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

EB-06 SDG#: DE012-07EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1 U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1 U	1	5	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010 U	0.010	0.050	1
10137	Acenaphthylene	208-96-8	0.010 U	0.010	0.050	1
10137	Anthracene	120-12-7	0.010 U	0.010	0.050	1
10137	Benzo(a)anthracene	56-55-3	0.010 U	0.010	0.050	1
10137	Benzo(a)pyrene	50-32-8	0.010 U	0.010	0.050	1
10137	Benzo(b)fluoranthene	205-99-2	0.010 U	0.010	0.050	1
10137	Benzo(g,h,i)perylene	191-24-2	0.010 U	0.010	0.050	1
10137	Benzo(k)fluoranthene	207-08-9	0.010 U	0.010	0.050	1
10137	Butylbenzylphthalate	85-68-7	0.050 U	0.050	1.0	1
10137	Di-n-butylphthalate	84-74-2	0.19 J	0.050	1.0	1
10137	Chrysene	218-01-9	0.010 U	0.010	0.050	1
10137	Dibenz(a,h)anthracene	53-70-3	0.010 U	0.010	0.050	1
10137	Diethylphthalate	84-66-2	0.081 J	0.050	1.0	1
10137	Dimethylphthalate	131-11-3	0.050 U	0.050	1.0	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.39 J	0.050	1.0	1
10137	Fluoranthene	206-44-0	0.010 U	0.010	0.050	1
10137	Fluorene	86-73-7	0.010 U	0.010	0.050	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010 U	0.010	0.050	1
10137	1-Methylnaphthalene	90-12-0	0.010 U	0.010	0.050	1
10137	2-Methylnaphthalene	91-57-6	0.010 U	0.010	0.050	1
10137	Naphthalene	91-20-3	0.052 U	0.010	0.050	1
10137	N-Nitrosodimethylamine	62-75-9	0.010 U	0.010	0.050	1
10137	Di-n-octylphthalate	117-84-0	0.050 U	0.050	1.0	1
10137	Phenanthrene	85-01-8	0.013 J	0.010	0.050	1
10137	Pyrene	129-00-0	0.010 U	0.010	0.050	1

The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.

Pesticides/PCBs	SW-846 8082	ug/l	ug/l	ug/l
10227	Aroclor 5432	63496-31-1	0.098 U	0.098
10227	Aroclor 5442	12642-23-8	0.098 U	0.098
10227	Aroclor 5460	11126-42-4	0.098 U	0.098
10227	PCB-1016	12674-11-2	0.098 U	0.098
10227	PCB-1221	11104-28-2	0.098 U	0.098
10227	PCB-1232	11141-16-5	0.20 U	0.20
10227	PCB-1242	53469-21-9	0.098 U	0.098
10227	PCB-1248	12672-29-6	0.098 U	0.098
10227	PCB-1254	11097-69-1	0.098 U	0.098
10227	PCB-1260	11096-82-5	0.098 U	0.098
10227	PCB-1262	37324-23-5	0.20 U	0.20
10227	PCB-1268	11100-14-4	0.16 U	0.16

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Description: EB06-SA5C-110910 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA5C-110910

LLI Sample # WW 6136202
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 12:00

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

EB-06 SDG#: DE012-07EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
SW-846 6010B			mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1
SW-846 6020			mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
SW-846 7470A			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000056 U	0.000056	0.00020	1
Wet Chemistry						
EPA 300.0			mg/l	mg/l	mg/l	
01504	Fluoride	16984-48-8	0.080 U	0.080	0.10	1
EPA 314.0			ug/l	ug/l	ug/l	
06019	Perchlorate	14797-73-0	0.70 U	0.70	2.0	1
SW-846 7199			ug/l	ug/l	ug/l	
06467	Hexavalent Chromium (water)	18540-29-9	5.0 U	5.0	10.0	1

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

Sample Description: EB06-SA5C-110910 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA5C-110910

LLI Sample # WW 6136202
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 12:00

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

Submitted: 11/10/2010 09:00

Reported: 12/06/2010 16:18

EB-06 SDG#: DE012-07EB*

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10319WAWJ026	11/17/2010 01:51	Florida A Cimino	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10316WAP026	11/30/2010 22:49	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10319WAWJ026	11/15/2010 14:00	Olivia I Santiago	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10316WAP026	11/14/2010 14:00	Elaine F Stoltzfus	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103150023A	11/16/2010 03:03	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103150023A	11/12/2010 11:00	Denise L Trimby	1
01743	Aluminum	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
08014	Boron	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
01750	Calcium	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
01754	Iron	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
01756	Lithium	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
07058	Manganese	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
01762	Potassium	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
01767	Sodium	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
08068	Strontium	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
07069	Tin	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
07070	Titanium	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103161848002	11/16/2010 18:27	John P Hook	1
06024	Antimony	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103166050002D	11/17/2010 10:54	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103166050002C	11/17/2010 10:54	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103166050002B	11/17/2010 10:54	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103166050002A	11/17/2010 10:54	Choon Y Tian	1
00259	Mercury	SW-846 7470A	2	103165713004	11/15/2010 08:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103161848002	11/14/2010 11:30	James L Mertz	1

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

Sample Description: EB06-SA5C-110910 Water
 SSFL Area IV Collocated Soil Sampling
 EB06-SA5C-110910

LLI Sample # WW 6136202
LLI Group # 1220507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/09/2010 12:00

CDM Federal Programs Corp.

Submitted: 11/10/2010 09:00

14420 Albemarle Point Place

Reported: 12/06/2010 16:18

Suite 210

Chantilly VA 20151

EB-06 SDG#: DE012-07EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103166050002	11/14/2010 12:07	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103165713004	11/12/2010 16:15	Nelli S Markaryan	1
01504	Fluoride	EPA 300.0	1	10321196903A	11/18/2010 05:00	Ashley M Adams	1
06019	Perchlorate	EPA 314.0	1	10322621701A	11/19/2010 11:01	William L Hamaker Jr	1
06467	Hexavalent Chromium (water)	SW-846 7199	1	10314621301A	11/10/2010 10:25	William L Hamaker Jr	1

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B103191AA	Sample number(s): 6136196-6136197, 6136199								
Acetone	6.7	U 6.7	8.0	ug/kg	110		32-209		
Benzene	0.10	U 0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U 0.13	4.0	ug/kg	102		79-120		
Bromochloromethane	0.33	U 0.33	4.0	ug/kg	147*		79-124		
Bromodichloromethane	0.08	U 0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40	U 0.40	4.0	ug/kg	91		70-120		
Bromomethane	0.25	U 0.25	4.0	ug/kg	78		32-162		
2-Butanone	1.2	U 1.2	8.0	ug/kg	99		46-153		
n-Butylbenzene	0.12	U 0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06	U 0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U 0.16	4.0	ug/kg	98		75-120		
Carbon Tetrachloride	0.14	U 0.14	4.0	ug/kg	98		69-122		
Chlorobenzene	0.11	U 0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U 0.13	4.0	ug/kg	76		37-154		
2-Chloroethyl Vinyl Ether	0.30	U 0.30	4.0	ug/kg	100		43-146		
Chloroform	0.12	U 0.12	4.0	ug/kg	104		80-120		
Chloromethane	0.33	U 0.33	4.0	ug/kg	84		54-132		
2-Chlorotoluene	0.14	U 0.14	4.0	ug/kg	100		78-120		
4-Chlorotoluene	0.14	U 0.14	4.0	ug/kg	99		79-120		
Chlorotrifluoroethene	0.50	U 0.50	5.0	ug/kg	147*		22-131		
1,2-Dibromo-3-chloropropane	0.70	U 0.70	4.0	ug/kg	90		58-120		
Dibromochloromethane	0.20	U 0.20	4.0	ug/kg	94		77-120		
1,2-Dibromoethane	0.17	U 0.17	4.0	ug/kg	99		80-120		
Dibromomethane	0.24	U 0.24	4.0	ug/kg	104		80-120		
1,2-Dichlorobenzene	0.09	U 0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U 0.12	4.0	ug/kg	99		78-120		
1,4-Dichlorobenzene	0.16	U 0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U 0.12	4.0	ug/kg	69		20-120		
1,1-Dichloroethane	0.10	U 0.10	4.0	ug/kg	103		80-120		
1,2-Dichloroethane	0.15	U 0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U 0.39	4.0	ug/kg	106		73-123		
cis-1,2-Dichloroethene	0.19	U 0.19	4.0	ug/kg	108		80-120		
trans-1,2-Dichloroethene	0.12	U 0.12	4.0	ug/kg	99		79-120		
1,2-Dichloropropane	0.17	U 0.17	4.0	ug/kg	101		80-120		
1,3-Dichloropropane	0.08	U 0.08	4.0	ug/kg	98		80-120		
2,2-Dichloropropane	0.17	U 0.17	4.0	ug/kg	88		72-123		
1,1-Dichloropropene	0.13	U 0.13	4.0	ug/kg	105		77-120		
cis-1,3-Dichloropropene	0.16	U 0.16	4.0	ug/kg	94		80-120		
trans-1,3-Dichloropropene	0.17	U 0.17	4.0	ug/kg	84		77-120		
Ethylbenzene	0.12	J 0.06	4.0	ug/kg	101		80-120		
Freon 113	0.11	U 0.11	4.0	ug/kg	115		61-126		
Freon 133a	0.50	U 0.50	5.0	ug/kg	97		78-120		
Hexachlorobutadiene	0.14	U 0.14	4.0	ug/kg	104		57-120		
2-Hexanone	1.6	U 1.6	8.0	ug/kg	92		45-155		
Isopropylbenzene	0.06	U 0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U 0.11	4.0	ug/kg	103		75-120		

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	99		61-134		
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	93		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	104		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	97		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	94		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	99		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	103		77-120		
Toluene	0.40 J	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	95		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	95		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	99		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	104		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	89		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	103		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	103		79-120		
1,3,5-Trimethylbenzene	0.16 J	0.10	4.0	ug/kg	100		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	79		53-120		
m+p-Xylene	0.41 J	0.17	4.0	ug/kg	101		80-120		
o-Xylene	0.19 J	0.17	4.0	ug/kg	99		80-120		
Batch number: E103151AA Sample number(s): 6136201									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	97	101	60-132	4	30
Batch number: E103152AA Sample number(s): 6136196-6136197,6136199									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	97	100	70-130	2	30
Batch number: Y103191AA Sample number(s): 6136201									
Acetone	6 U	6.	20	ug/l	148	145	49-234	2	30
Benzene	0.5 U	0.5	5	ug/l	99	99	79-120	0	30
Bromobenzene	1 U	1.	5	ug/l	107	108	80-120	1	30
Bromochloromethane	1 U	1.	5	ug/l	97	98	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	93	92	80-120	1	30
Bromoform	1 U	1.	5	ug/l	101	101	61-120	0	30
Bromomethane	1 U	1.	5	ug/l	106	102	44-120	3	30
2-Butanone	3 U	3.	10	ug/l	105	106	66-151	1	30
n-Butylbenzene	1 U	1.	5	ug/l	104	103	74-120	0	30
sec-Butylbenzene	1 U	1.	5	ug/l	108	109	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	100	104	80-120	4	30
Carbon Tetrachloride	1 U	1.	5	ug/l	96	94	75-123	2	30
Chlorobenzene	0.8 U	0.8	5	ug/l	98	97	80-120	1	30
Chloroethane	1 U	1.	5	ug/l	97	92	49-129	5	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	108	111	56-129	3	30
Chloroform	0.8 U	0.8	5	ug/l	100	99	77-122	2	30
Chloromethane	1 U	1.	5	ug/l	85	87	60-129	2	30
2-Chlorotoluene	1 U	1.	5	ug/l	105	105	80-120	1	30
4-Chlorotoluene	1 U	1.	5	ug/l	102	102	80-120	0	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	132	127	38-136	3	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	112	115	66-120	3	30
Dibromochloromethane	1 U	1.	5	ug/l	92	93	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	102	103	80-120	1	30
Dibromomethane	1 U	1.	5	ug/l	98	100	80-120	1	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	98	101	80-120	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	103	104	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	101	102	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	68	69	47-120	2	30
1,1-Dichloroethane	1 U	1.	5	ug/l	101	101	79-120	0	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dichloroethane	1 U	1.	5	ug/l	103	101	70-130	1	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	114	114	74-123	0	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	99	80-120	0	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	100	98	80-120	1	30
1,2-Dichloropropane	1 U	1.	5	ug/l	99	98	78-120	1	30
1,3-Dichloropropane	1 U	1.	5	ug/l	102	103	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	96	94	77-124	3	30
1,1-Dichloropropene	1 U	1.	5	ug/l	100	100	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	92	93	80-120	1	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	94	97	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	100	99	79-120	2	30
Freon 113	2 U	2.	10	ug/l	115	112	69-128	3	30
Freon 133a	2 U	2.	5	ug/l	98	95	77-120	3	30
Hexachlorobutadiene	2 U	2.	5	ug/l	96	97	58-120	1	30
2-Hexanone	3 U	3.	10	ug/l	107	108	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	98	98	77-120	0	30
p-Isopropyltoluene	1 U	1.	5	ug/l	107	106	80-120	0	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	98	100	76-120	2	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	104	104	70-121	0	30
Methylene Chloride	2 U	2.	5	ug/l	103	106	80-120	3	30
n-Propylbenzene	1 U	1.	5	ug/l	111	112	80-120	1	30
Styrene	1 U	1.	5	ug/l	110	110	80-120	0	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	96	96	80-120	1	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	109	112	71-120	3	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	96	97	80-121	1	30
Toluene	0.7 U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	102	104	65-120	2	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	99	101	67-120	2	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	100	99	75-127	1	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	102	101	80-120	2	30
Trichloroethene	1 U	1.	5	ug/l	98	96	80-120	2	30
Trichlorofluoromethane	2 U	2.	5	ug/l	109	105	64-129	3	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	110	114	80-120	4	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	108	109	74-120	1	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	106	106	75-120	0	30
Vinyl Chloride	1 U	1.	5	ug/l	81	82	65-125	1	30
m+p-Xylene	0.8 U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8 U	0.8	5	ug/l	94	94	80-120	0	30

Batch number: 10316SLLO26

Sample number(s): 6136196-6136200

Acenaphthene	0.67 U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	87		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	109		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	105		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	125		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	98		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	105		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	100		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	104		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	103		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	103		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	102		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	98		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	104		62-141		

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	97		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	86		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	116		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	99		56-121		
Batch number: 10316SLP026 Sample number(s): 6136196-6136200									
Aniline	170 U	170.	500	ug/kg	74		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170 U	170.	500	ug/kg	96		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	101		79-117		
Carbazole	17 U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	92		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	38		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	89		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	111		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	94		79-110		
Dibenzofuran	17 U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	70		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	92	97	70-130	5	30
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	70		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	90		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	98		77-111		
Hexachlorobenzene	17 U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	58		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	87		68-105		
Isophorone	17 U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	98		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	101		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	87		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	90		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	101		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	82		56-118		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	102		67-141		
Pentachlorophenol	170 U	170.	500	ug/kg	84		35-106		
Phenol	17 U	17.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33 U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	100		78-111		

Batch number: 10316WAP026	Sample number(s): 6136202								
Acenaphthene	0.010 U	0.010	0.050	ug/l	101	101	74-109	1	30
Acenaphthylene	0.010 U	0.010	0.050	ug/l	99	100	70-110	1	30
Anthracene	0.010 U	0.010	0.050	ug/l	102	105	66-111	3	30
Benzo(a)anthracene	0.010 U	0.010	0.050	ug/l	106	106	72-114	1	30
Benzo(a)pyrene	0.010 U	0.010	0.050	ug/l	119*	120*	64-115	1	30
Benzo(b)fluoranthene	0.010 U	0.010	0.050	ug/l	138*	136*	69-123	2	30
Benzo(g,h,i)perylene	0.010 U	0.010	0.050	ug/l	111	110	68-125	0	30
Benzo(k)fluoranthene	0.010 U	0.010	0.050	ug/l	116	118	72-122	2	30
Butylbenzylphthalate	0.050 U	0.050	1.0	ug/l	91	96	70-130	5	30
Di-n-butylphthalate	0.050 U	0.050	1.0	ug/l	108	110	70-130	1	30
Chrysene	0.010 U	0.010	0.050	ug/l	107	108	76-116	1	30
Dibenz(a,h)anthracene	0.010 U	0.010	0.050	ug/l	108	108	71-125	0	30
Diethylphthalate	0.050 U	0.050	1.0	ug/l	104	104	70-130	0	30
Dimethylphthalate	0.050 U	0.050	1.0	ug/l	90	92	70-130	2	30
Bis(2-Ethylhexyl)phthalate	0.050 U	0.050	1.0	ug/l	104	112	70-130	7	30
Fluoranthene	0.010 U	0.010	0.050	ug/l	104	106	75-116	2	30
Fluorene	0.010 U	0.010	0.050	ug/l	110	113	75-114	3	30
Indeno(1,2,3-cd)pyrene	0.010 U	0.010	0.050	ug/l	110	110	69-124	0	30
1-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	105	107	71-117	2	30
2-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	93	94	75-115	2	30
Naphthalene	0.010 U	0.010	0.050	ug/l	98	101	72-109	3	30
N-Nitrosodimethylamine	0.010 U	0.010	0.050	ug/l	60*	61*	70-130	1	30
Di-n-octylphthalate	0.050 U	0.050	1.0	ug/l	207*	130	70-130	45*	30
Phenanthrene	0.010 U	0.010	0.050	ug/l	103	104	76-111	2	30
Pyrene	0.010 U	0.010	0.050	ug/l	105	107	69-118	1	30

Batch number: 10319WAW026	Sample number(s): 6136202								
Aniline	1 U	1.	5	ug/l	67	73	49-101	8	30
Benzidine	20 U	20.	60	ug/l	55	60	20-109	8	30
Benzoic acid	6 U	6.	15	ug/l	35	46	10-69	27	30
Benzyl alcohol	5 U	5.	15	ug/l	91	91	66-97	1	30
4-Bromophenyl-phenylether	1 U	1.	5	ug/l	107	103	82-117	4	30
Carbazole	1 U	1.	5	ug/l	102	101	81-114	1	30
4-Chloro-3-methylphenol	1 U	1.	5	ug/l	99	94	70-123	6	30
4-Chloroaniline	1 U	1.	5	ug/l	47	52	42-124	11	30
bis(2-Chloroethoxy)methane	1 U	1.	5	ug/l	98	95	74-124	3	30
bis(2-Chloroethyl)ether	1 U	1.	5	ug/l	89	93	77-108	4	30
bis(2-Chloroisopropyl)ether	1 U	1.	5	ug/l	85	88	62-127	4	30
2-Chloronaphthalene	2 U	2.	5	ug/l	90	93	54-132	4	30
2-Chlorophenol	1 U	1.	5	ug/l	97	95	77-108	2	30
4-Chlorophenyl-phenylether	2 U	2.	5	ug/l	98	100	82-111	2	30
Dibenzofuran	1 U	1.	5	ug/l	99	99	83-108	0	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	90	92	67-108	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	85	91	63-110	6	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	89	90	65-113	1	30
3,3'-Dichlorobenzidine	2 U	2.	5	ug/l	62	64	49-111	4	30
2,4-Dichlorophenol	1 U	1.	5	ug/l	105	101	80-109	3	30
2,4-Dimethylphenol	3 U	3.	10	ug/l	101	98	72-110	3	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
3,5-Dimethylphenol	3 U	3.	10	ug/l	100	100	70-130	0	30
4,6-Dinitro-2-methylphenol	5 U	5.	15	ug/l	94	91	78-119	3	30
2,4-Dinitrophenol	10 U	10.	30	ug/l	82	82	64-120	0	30
2,4-Dinitrotoluene	1 U	1.	5	ug/l	97	98	81-115	1	30
2,6-Dinitrotoluene	1 U	1.	5	ug/l	101	101	85-115	0	30
1,2-Diphenylhydrazine	1 U	1.	5	ug/l	106	101	78-116	4	30
Hexachlorobenzene	1 U	1.	5	ug/l	103	102	81-118	1	30
Hexachlorobutadiene	1 U	1.	5	ug/l	99	96	57-124	3	30
Hexachlorocyclopentadiene	5 U	5.	15	ug/l	54	53	10-118	2	30
Hexachloroethane	1 U	1.	5	ug/l	88	84	52-113	5	30
Isophorone	1 U	1.	5	ug/l	97	95	74-117	2	30
2-Methylphenol	1 U	1.	5	ug/l	93	92	64-101	1	30
4-Methylphenol	2 U	2.	5	ug/l	87	89	61-103	3	30
2-Nitroaniline	1 U	1.	5	ug/l	101	99	83-116	2	30
3-Nitroaniline	1 U	1.	5	ug/l	93	93	74-113	0	30
4-Nitroaniline	1 U	1.	5	ug/l	72	75	59-100	4	30
Nitrobenzene	1 U	1.	5	ug/l	97	95	75-109	2	30
2-Nitrophenol	1 U	1.	5	ug/l	108	103	86-120	4	30
4-Nitrophenol	10 U	10.	30	ug/l	49	48	16-78	3	30
N-Nitroso-di-n-propylamine	1 U	1.	5	ug/l	88	90	69-110	2	30
N-Nitrosodiphenylamine	2 U	2.	5	ug/l	106	104	67-136	1	30
Pentachlorophenol	3 U	3.	15	ug/l	93	91	53-110	2	30
Phenol	1 U	1.	5	ug/l	52	50	29-67	2	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	97	95	71-112	2	30
2,4,5-Trichlorophenol	1 U	1.	5	ug/l	103	100	79-107	3	30
2,4,6-Trichlorophenol	1 U	1.	5	ug/l	105	106	81-113	1	30

 Batch number: 103140018A
 Perchlorate in Soil LC/MS/MS

 Sample number(s): 6136196
 2.1 U 2.1 5.0

ug/kg 95 70-130

Batch number: 103150023A

Sample number(s): 6136202

Aroclor 5432	0.10 U	0.10	0.50	ug/l					
Aroclor 5442	0.10 U	0.10	0.50	ug/l	54*	54*	75-125	0	30
Aroclor 5460	0.10 U	0.10	0.50	ug/l					
PCB-1016	0.10 U	0.10	0.50	ug/l	72	68	68-119	6	30
PCB-1221	0.10 U	0.10	0.50	ug/l					
PCB-1232	0.20 U	0.20	0.50	ug/l					
PCB-1242	0.10 U	0.10	0.50	ug/l					
PCB-1248	0.10 U	0.10	0.50	ug/l					
PCB-1254	0.10 U	0.10	0.50	ug/l					
PCB-1260	0.10 U	0.10	0.50	ug/l	122*	98	68-121	22	30
PCB-1262	0.20 U	0.20	0.50	ug/l					
PCB-1268	0.16 U	0.16	0.50	ug/l					

Batch number: 103160020A

Sample number(s): 6136196-6136200

Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	51*	57*	75-125	10	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	73		72-120		
PCB-1221	0.50 U	0.50	1.7	ug/kg					
PCB-1232	0.52 U	0.52	1.7	ug/kg					
PCB-1242	0.50 U	0.50	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.33 U	0.33	1.7	ug/kg	115		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 103151026003A	Sample number(s): 6136196-6136200								
Antimony	0.0583 U	0.0583	0.194	mg/kg	106		11-208		
Arsenic	0.0583 U	0.0583	0.388	mg/kg	97		80-120		
Beryllium	0.0155 U	0.0155	0.0971	mg/kg	98		82-118		
Cadmium	0.0350 U	0.0350	0.0971	mg/kg	101		82-118		
Chromium	0.130 J	0.117	0.388	mg/kg	107		80-120		
Cobalt	0.0194 U	0.0194	0.0971	mg/kg	101		82-118		
Copper	0.0641 U	0.0641	0.388	mg/kg	99		80-120		
Lead	0.0144 J	0.0101	0.194	mg/kg	102		80-120		
Nickel	0.0971 U	0.0971	0.388	mg/kg	104		80-120		
Silver	0.0117 U	0.0117	0.0971	mg/kg	100		66-134		
Thallium	0.0291 U	0.0291	0.0971	mg/kg	98		81-119		
Vanadium	0.0214 U	0.0214	0.0971	mg/kg	94		90-110		
Zinc	0.544 U	0.544	2.91	mg/kg	103		78-122		
Batch number: 103151026003B	Sample number(s): 6136196-6136200								
Selenium	0.0388 U	0.0388	0.388	mg/kg	101		79-122		
Batch number: 103151026003C	Sample number(s): 6136196-6136200								
Molybdenum	0.0485 U	0.0485	0.0971	mg/kg	107		78-122		
Batch number: 103151026003D	Sample number(s): 6136196-6136200								
Barium	0.105 U	0.105	0.388	mg/kg	96		79-121		
Batch number: 103155708003	Sample number(s): 6136196-6136200								
Aluminum	5.03 U	5.03	20.0	mg/kg	102		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	89		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	97		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	96		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	99		81-119		
Phosphorus	1.46 J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3 U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	99		79-121		
Tin	1.17 J	1.00	10.0	mg/kg	93		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	96		85-115		
Zirconium	0.840 U	0.840	5.00	mg/kg	101		80-120		
Batch number: 103155711002	Sample number(s): 6136196-6136200								
Mercury	0.0027 U	0.0027	0.0942	mg/kg	103		88-123		
Batch number: 103161848002	Sample number(s): 6136202								
Aluminum	0.0834 U	0.0834	0.200	mg/l	108	105	90-112	3	20
Boron	0.0138 U	0.0138	0.0500	mg/l	94	95	90-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	104	102	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	103	102	90-112	1	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	102	99	80-120	2	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	102	99	89-110	3	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	100	100	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	99	99	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	103	100	85-115	3	20
Sodium	0.433 U	0.433	1.00	mg/l	103	101	87-114	2	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	102	101	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	98	98	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	102	101	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	103	101	80-120	2	20

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 103165713004 Mercury	Sample number(s): 6136202 0.000056 U	0.00005 6	0.00020	mg/l	92	94	80-120	2	20
Batch number: 103166050002A Antimony	Sample number(s): 6136202 0.00030 U	0.00030	0.0010	mg/l	103	97	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	103	99	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	105	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	103	104	90-114	0	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	100	102	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	95	94	80-120	0	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	102	90-113	0	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	101	99	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	103	90-113	0	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	104	104	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	104	101	89-116	2	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	98	99	80-120	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	101	103	80-120	3	20
Batch number: 103166050002B Selenium	Sample number(s): 6136202 0.00025 U	0.00025	0.0020	mg/l	101	102	85-114	1	20
Batch number: 103166050002C Molybdenum	Sample number(s): 6136202 0.00025 U	0.00025	0.00050	mg/l	103	100	80-120	3	20
Batch number: 103166050002D Barium	Sample number(s): 6136202 0.00038 U	0.00038	0.0020	mg/l	101	104	88-113	3	20
Batch number: 10314621301A Hexavalent Chromium (water)	Sample number(s): 6136202 5.0 U	5.0	10.0	ug/l	99		90-110		
Batch number: 10321196903A Fluoride	Sample number(s): 6136202 0.080 U	0.080	0.10	mg/l	107	107	90-110	0	20
Batch number: 10322621701A Perchlorate	Sample number(s): 6136202 0.70 U	0.70	2.0	ug/l	99	102	84-115	2	20
Batch number: 10324243201A Hexavalent Chromium by IC	Sample number(s): 6136196-6136200 0.20 U	0.20	1.0	mg/kg	91		80-120		
Batch number: 10326326201A Fluoride by IC (solid)	Sample number(s): 6136196-6136197 0.80 U	0.80	1.0	mg/kg	92		90-110		
Batch number: 10326326201B Fluoride by IC (solid)	Sample number(s): 6136198-6136200 0.80 U	0.80	1.0	mg/kg	92		90-110		
Batch number: 10327327202A Perchlorate in Soil	Sample number(s): 6136196-6136200 9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 10314039403A pH	Sample number(s): 6136196-6136200				100		95-105		
Batch number: 10315182101A Oxidation Reduction Potential	Sample number(s): 6136196-6136200				98		98-102		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10322162401A	Sample number(s): 6136196-6136200								
Moisture CDM					100		80-120		

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103191AA	Sample number(s): 6136196-6136197,6136199 UNSPK: P137487								
Acetone	95	98	15-210	1	30				
Benzene	108	104	55-143	6	30				
Bromobenzene	105	102	43-139	7	30				
Bromochloromethane	139*	139*	60-137	3	30				
Bromodichloromethane	98	95	53-136	6	30				
Bromoform	87	81	38-124	9	30				
Bromomethane	67	64	42-168	7	30				
2-Butanone	86	83	37-163	7	30				
n-Butylbenzene	104	96	30-146	11	30				
sec-Butylbenzene	110	103	33-157	10	30				
tert-Butylbenzene	103	97	41-152	9	30				
Carbon Tetrachloride	98	93	45-153	8	30				
Chlorobenzene	104	98	49-135	9	30				
Chloroethane	65	62	39-152	8	30				
2-Chloroethyl Vinyl Ether	89	89	32-139	3	30				
Chloroform	105	101	61-142	7	30				
Chloromethane	70	75	51-163	4	30				
2-Chlorotoluene	104	100	42-146	8	30				
4-Chlorotoluene	105	98	39-145	10	30				
Chlorotrifluoroethene	138*	136*	70-130	4	30				
1,2-Dibromo-3-chloropropane	78	75	30-139	8	30				
Dibromochloromethane	93	89	51-128	7	30				
1,2-Dibromoethane	96	92	54-129	7	30				
Dibromomethane	101	98	57-130	6	30				
1,2-Dichlorobenzene	102	96	36-133	9	30				
1,3-Dichlorobenzene	103	98	34-134	9	30				
1,4-Dichlorobenzene	103	97	35-136	9	30				
Dichlorodifluoromethane	55	55	26-151	4	30				
1,1-Dichloroethane	102	100	63-142	5	30				
1,2-Dichloroethane	95	92	68-131	6	30				
1,1-Dichloroethene	107	103	61-149	6	30				
cis-1,2-Dichloroethene	106	103	60-136	6	30				
trans-1,2-Dichloroethene	99	95	59-142	6	30				
1,2-Dichloropropane	101	99	62-135	6	30				
1,3-Dichloropropane	97	94	58-129	6	30				
2,2-Dichloropropane	85	82	53-147	6	30				
1,1-Dichloropropene	106	103	54-145	6	30				
cis-1,3-Dichloropropene	94	91	51-131	6	30				
trans-1,3-Dichloropropene	82	80	49-129	6	30				
Ethylbenzene	104	98	44-141	8	30				
Freon 113	118	113	56-156	7	30				
Freon 133a	96	95	70-130	4	30				
Hexachlorobutadiene	110	98	10-155	14	30				

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Quality Control Summary

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 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2-Hexanone	81	79	32-160	5	30				
Isopropylbenzene	104	96	38-144	10	30				
p-Isopropyltoluene	107	99	29-152	10	30				
Methyl Tertiary Butyl Ether	87	85	55-129	5	30				
4-Methyl-2-pentanone	85	81	46-139	7	30				
Methylene Chloride	94	95	61-141	1	30				
n-Propylbenzene	109	103	39-157	9	30				
Styrene	100	95	35-134	8	30				
1,1,1,2-Tetrachloroethane	94	90	52-130	8	30				
1,1,2,2-Tetrachloroethane	94	92	40-152	6	30				
Tetrachloroethene	105	101	42-149	7	30				
Toluene	103	98	50-146	7	30				
1,2,3-Trichlorobenzene	97	92	10-140	9	30				
1,2,4-Trichlorobenzene	97	90	10-136	11	30				
1,1,1-Trichloroethane	97	94	64-142	6	30				
1,1,2-Trichloroethane	96	92	54-139	7	30				
Trichloroethene	107	103	53-144	7	30				
Trichlorofluoromethane	91	90	47-163	5	30				
1,2,3-Trichloropropane	95	91	45-154	7	30				
1,2,4-Trimethylbenzene	104	99	37-149	8	30				
1,3,5-Trimethylbenzene	105	98	38-150	10	30				
Vinyl Chloride	76	76	50-154	3	30				
m+p-Xylene	102	96	44-137	9	30				
o-Xylene	99	94	42-137	8	30				

Batch number: 10316SLLO26 Sample number(s): 6136196-6136200 UNSPK: P134958

Acenaphthene	91	89	63-105	2	30				
Acenaphthylene	85	81	55-126	5	30				
Anthracene	90	89	46-136	1	30				
Benzo(a)anthracene	95	96	39-144	1	30				
Benzo(a)pyrene	107	108	34-156	1	30				
Benzo(b)fluoranthene	132	142	43-155	7	30				
Benzo(g,h,i)perylene	59	55	33-141	6	30				
Benzo(k)fluoranthene	121	126	42-144	4	30				
Butylbenzylphthalate	97	99	73-140	1	30				
Di-n-butylphthalate	101	101	78-160	0	30				
Chrysene	97	99	29-156	2	30				
Dibenz(a,h)anthracene	64	57	41-130	10	30				
Diethylphthalate	99	97	87-131	2	30				
Dimethylphthalate	99	96	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	98	98	39-167	0	30				
Fluoranthene	94	96	26-166	1	30				
Fluorene	96	94	45-121	2	30				
Indeno(1,2,3-cd)pyrene	65	61	21-143	8	30				
1-Methylnaphthalene	93	93	72-123	0	30				
2-Methylnaphthalene	83	83	28-121	0	30				
Naphthalene	90	90	61-102	1	30				
N-Nitrosodimethylamine	85	88	48-113	4	30				
Di-n-octylphthalate	129	139	40-192	8	30				
Phenanthrene	94	94	12-165	0	30				
Pyrene	97	99	15-153	2	30				

Batch number: 10316SLP026 Sample number(s): 6136196-6136200 UNSPK: P134960

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Aniline	73	79	14-114	8	30				
Benzidine	34*	45	35-141	29	30				
Benzoic acid	64	79	10-173	21	30				
Benzyl alcohol	99	99	55-123	0	30				
4-Bromophenyl-phenylether	95	100	67-129	4	30				
Carbazole	90	95	64-120	6	30				
4-Chloro-3-methylphenol	86	97	53-130	12	30				
4-Chloroaniline	56	76	23-95	30	30				
bis(2-Chloroethoxy)methane	84	89	54-117	6	30				
bis(2-Chloroethyl)ether	84	86	60-116	3	30				
bis(2-Chloroisopropyl)ether	76	80	55-142	4	30				
2-Chloronaphthalene	85	89	50-141	5	30				
2-Chlorophenol	94	93	73-121	1	30				
4-Chlorophenyl-phenylether	87	96	64-119	10	30				
Dibenzofuran	87	96	71-112	10	30				
1,2-Dichlorobenzene	81	83	66-108	3	30				
1,3-Dichlorobenzene	75	78	63-109	4	30				
1,4-Dichlorobenzene	77	82	53-113	6	30				
3,3'-Dichlorobenzidine	64	78	25-123	19	30				
2,4-Dichlorophenol	91	99	78-117	8	30				
2,4-Dimethylphenol	89	98	56-130	9	30				
4,6-Dinitro-2-methylphenol	59	68	10-148	15	30				
2,4-Dinitrophenol	39	49	20-143	23	30				
2,4-Dinitrotoluene	85	95	57-114	12	30				
2,6-Dinitrotoluene	87	97	69-123	10	30				
1,2-Diphenylhydrazine	91	97	71-129	6	30				
Hexachlorobenzene	91	99	61-111	8	30				
Hexachlorobutadiene	83	90	62-120	8	30				
Hexachlorocyclopentadiene	43	46	10-153	7	30				
Hexachloroethane	74	76	57-109	3	30				
Isophorone	84	88	51-118	5	30				
2-Methylphenol	90	95	47-142	5	30				
4-Methylphenol	98	100	55-126	3	30				
2-Nitroaniline	86	98	67-125	13	30				
3-Nitroaniline	84	93	59-122	10	30				
4-Nitroaniline	65	74	52-112	13	30				
Nitrobenzene	85	90	51-114	5	30				
2-Nitrophenol	93	95	74-115	2	30				
4-Nitrophenol	79	90	39-133	13	30				
N-Nitroso-di-n-propylamine	83	85	60-116	2	30				
N-Nitrosodiphenylamine	93	101	86-145	8	30				
Pentachlorophenol	79	91	17-149	14	30				
Phenol	93	96	58-126	3	30				
1,2,4-Trichlorobenzene	83	91	72-115	10	30				
2,4,5-Trichlorophenol	92	98	34-139	6	30				
2,4,6-Trichlorophenol	92	103	49-140	11	30				

 Batch number: 103140018A Sample number(s): 6136196 UNSPK: P132121
 Perchlorate in Soil LC/MS/MS 96 98 70-130 2 30

 Batch number: 103160020A Sample number(s): 6136196-6136200 UNSPK: P133892
 PCB-1016 79 93 29-146 16 50
 PCB-1260 118 137 39-149 15 50

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: 103151026003A	Sample number(s): 6136196-6136200 UNSPK: P134958 BKG: P134958								
Antimony	57*	50*	75-125	14	20	0.119 J	0.107 J	10 (1)	20
Arsenic	77	137*	75-125	11	20	7.51	7.89	5	20
Beryllium	87	99	75-125	4	20	1.11	1.13	1	20
Cadmium	100	113	75-125	8	20	0.0630 J	0.0588 J	7 (1)	20
Chromium	75	90	75-125	3	20	28.3	28.8	1	20
Cobalt	87	95	75-125	4	20	6.07	5.42	11	20
Copper	83	97	75-125	6	20	8.98	9.32	4	20
Lead	80	129*	75-125	11	20	8.84	8.76	1	20
Nickel	75	98	75-125	8	20	15.5	16.2	5	20
Silver	110	117	75-125	3	20	0.0463 J	0.0557 J	18 (1)	20
Thallium	86	108	75-125	9	20	0.424	0.418	2 (1)	20
Vanadium	54 (2)	137 (2)	75-125	12	20	55.9	58.6	5	20
Zinc	17 (2)	89 (2)	75-125	10	20	63.8	66.2	4	20
Batch number: 103151026003B	Sample number(s): 6136196-6136200 UNSPK: P134958 BKG: P134958								
Selenium	92	104	75-125	8	20	0.0594 J	0.0507 J	16 (1)	20
Batch number: 103151026003C	Sample number(s): 6136196-6136200 UNSPK: P134958 BKG: P134958								
Molybdenum	99	108	75-125	4	20	0.477	0.438	8 (1)	20
Batch number: 103151026003D	Sample number(s): 6136196-6136200 UNSPK: P134958 BKG: P134958								
Barium	-131 (2)	-338 (2)	75-125	13	20	171	172	0	20
Batch number: 103155708003	Sample number(s): 6136196-6136200 UNSPK: P134958 BKG: P134958								
Aluminum	194 (2)	1220 (2)	75-125	6	20	31,200	29,500	6	20
Boron	89	88	84-115	3	20	11.3	11.3	0 (1)	20
Calcium	218 (2)	201 (2)	75-125	2	20	3,290	3,470	6	20
Iron	-1039 (2)	-224 (2)	75-125	3	20	26,000	25,700	1	20
Lithium	100	100	82-114	2	20	26.7	25.6	4	20
Magnesium	25 (2)	134 (2)	75-125	4	20	5,240	5,120	2	20
Manganese	88	168*	75-125	16	20	169	197	16	20
Phosphorus	84	88	75-125	1	20	131	149	13	20
Potassium	97	118	75-125	5	20	2,660	2,460	8	20
Sodium	98	97	75-125	2	20	424	425	0 (1)	20
Strontium	100	99	75-115	2	20	36.8	37.9	3	20
Tin	89	87	80-110	4	20	2.61 J	2.60 J	1 (1)	20
Titanium	151 (2)	389 (2)	75-125	14	20	1,380	1,370	1	20
Zirconium	99	98	75-125	3	20	4.21 J	5.55	27* (1)	20
Batch number: 103155711002	Sample number(s): 6136196-6136200 UNSPK: P134958 BKG: P134958								
Mercury	103	100	65-135	4	20	0.0113 J	0.0084 J	29* (1)	20
Batch number: 10314621301A	Sample number(s): 6136202 UNSPK: P136149 BKG: P136149								
Hexavalent Chromium (water)	99		59-135			5.0 U	5.0 U	0 (1)	20
Batch number: 10324243201A	Sample number(s): 6136196-6136200 UNSPK: P137487 BKG: P137487								
Hexavalent Chromium by IC	87		75-125			0.20 U	0.36 J	200* (1)	20

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: 10326326201A Fluoride by IC (solid)	56*		80-120	UNSPK: P134958	BKG: P134958	5.3	22*	20
Batch number: 10326326201B Fluoride by IC (solid)	100		80-120	UNSPK: P137487	BKG: P137487	7.1	23*	20
Batch number: 10327327202A Perchlorate in Soil	120		80-120	UNSPK: P134965	BKG: P134965	9.0 U	0 (1)	15
Batch number: 10314039403A pH				BKG: 6136196	6.99	6.98	0	1
Batch number: 10315182101A Oxidation Reduction Potential				BKG: P137486	442	442	0	6
Batch number: 10322162401A Moisture CDM				BKG: P137487	10.3	10.5	1	20

Surrogate Quality Control

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

Analysis Name: VOCs in Soil 8260B
Batch number: B103191AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6136196	104	106	95	95
6136197	103	103	96	93
6136199	102	100	97	92
Blank	102	103	96	94
LCS	103	107	97	96
MS	101	101	98	97
MSD	100	100	98	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1,4-Dioxane by Isotope Dil SIM
Batch number: E103151AA
Toluene-d8

6136201	100
Blank	99
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 1,4-Dioxane by Isotope DL SIM
Batch number: E103152AA

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

Surrogate Quality Control

Toluene-d8

6136196	96
6136197	96
6136199	97
Blank	99
LCS	98
LCSD	99

Limits: 70-130

 Analysis Name: VOCs in Water 8260B
 Batch number: Y103191AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6136201	95	98	101	99
Blank	97	96	101	99
LCS	97	101	103	102
LCSD	98	101	103	102

Limits: 86-118 80-120 88-110 86-115

 Analysis Name: Selected SVOAs in soil by SIM
 Batch number: 10316SL026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6136196	77	79	86
6136197	68	68	86
6136198	75	77	89
6136199	73	77	83
6136200	73	75	82
Blank	91	94	99
LCS	83	85	85
MS	79	82	84
MSD	82	82	88

Limits: 40-130 45-130 45-135

 Analysis Name: TCL SW846 Semivolatiles Soil
 Batch number: 10316SLP026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6136196	90	94	88	85	93	101
6136197	84	86	79	80	87	94
6136198	89	91	86	84	91	100
6136199	85	90	80	81	89	98
6136200	86	91	87	84	91	99
Blank	83	87	97	84	89	85
LCS	93	98	93	88	94	90
LCSD	88	92	86	84	88	88
MS	93	96	90	86	91	93
MSD	89	92	91	85	89	90

Limits: 25-120 25-130 35-130 40-130 45-130 45-135

 Analysis Name: Selected SVOAs in water by SIM
 Batch number: 10316WAP026

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:18 PM

Group Number: 1220507

Surrogate Quality Control

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6136202	82	86	89
Blank	74	85	88
LCS	88	93	92
LCSD	89	95	93
Limits:	40-130	45-130	45-135

 Analysis Name: TCL SW846 Semivolatiles/Waters
 Batch number: 10319WAJ026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6136202	58	35	88	87	90	90
Blank	62	40	95	89	94	91
LCS	68	45	95	93	96	93
LCSD	68	45	95	92	97	92
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

 Analysis Name: PCBs & PCTs in Water
 Batch number: 103150023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6136202	72	100
Blank	71	48
LCS	52	77
LCSD	43	91
Limits:	30-150	45-120

 Analysis Name: PCBs & PCTs in Soil
 Batch number: 103160020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6136196	76	105
6136197	85	116
6136198	87	117
6136199	88	118
6136200	81	125*
Blank	85	113
LCS	87	117
LCSD	82	101
MS	86	106
MSD	89	111
Limits:	53-139	45-120

*- Outside of specification

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 06, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/12/2010
Group Number: 1220967
SDG: DE014
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-104-SA5C-SB-4.0-5.0 Soil	6138685
SL-104-SA5C-SB-9.0-10.0 Soil	6138686
SL-100-SA5C-SB-4.0-5.0 Soil	6138687
SL-100-SA5C-SB-8.5-9.5 Soil	6138688
SL-101-SA5C-SB-4.0-5.0 Soil	6138689
SL-086-SA5C-SB-4.0-5.0 Soil	6138690
TB-111110 Water	6138691
EB07-SA5C-111110 Water	6138692

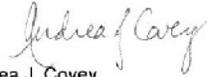
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program
COPY TO
1 COPY TO Data Package Group

Attn: Todd Burgesser

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

Respectfully Submitted,



Andrea J. Covey
Senior Specialist

Sample Description: SL-104-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-4.0-5.0

LLI Sample # SW 6138685
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:25

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10445 SDG#: DE014-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8 U	6.8	8.1	0.9
06192	Benzene	71-43-2	0.10 U	0.10	4.0	0.9
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0	0.9
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0	0.9
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0	0.9
06192	Bromoform	75-25-2	0.40 U	0.40	4.0	0.9
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0	0.9
06192	2-Butanone	78-93-3	1.2 U	1.2	8.1	0.9
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0	0.9
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0	0.9
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0	0.9
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0	0.9
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0	0.9
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0	0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0	0.9
06192	Chloroform	67-66-3	0.12 U	0.12	4.0	0.9
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0	0.9
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0	0.9
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0	0.9
06192	Chlorotrifluoroethene	79-38-9	0.51 U	0.51	5.1	0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71 U	0.71	4.0	0.9
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0	0.9
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0	0.9
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0	0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0	0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0	0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0	0.9
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0	0.9
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.0	0.9
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0	0.9
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0	0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0	0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0	0.9
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0	0.9
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0	0.9
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0	0.9
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0	0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0	0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0	0.9
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0	0.9
06192	Freon 113	76-13-1	0.11 U	0.11	4.0	0.9
06192	Freon 133a	75-88-7	0.51 U	0.51	5.1	0.9
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0	0.9
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.1	0.9
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0	0.9
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0	0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0	0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	8.1	0.9
06192	Methylene Chloride	75-09-2	0.24 U	0.24	4.0	0.9
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0	0.9

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

Sample Description: SL-104-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-4.0-5.0

LLI Sample # SW 6138685
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:25

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10445 SDG#: DE014-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.10 U	0.10	4.0	0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0	0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0	0.9
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0	0.9
06192	Toluene	108-88-3	0.08 J	0.08	4.0	0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0	0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0	0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0	0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0	0.9
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0	0.9
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0	0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0	0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0	0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.0	0.9
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0	0.9
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0	0.9
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0	0.9
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.8 U	5.8	17	25.72
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190	U 190	560	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U 190	560	1
04688	Benzyl alcohol	100-51-6	190	U 190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	190	1
04688	4-Chloroaniline	106-47-8	75	U 75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U 750	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1

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

Sample Description: SL-104-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-4.0-5.0

LLI Sample # SW 6138685
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:25

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10445 SDG#: DE014-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U 75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	37	U 37	190	1
04688	4-Methylphenol	106-44-5	37	U 37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	37	U 37	190	1
04688	4-Nitroaniline	100-01-6	75	U 75	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	560	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U 0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U 0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U 0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U 0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U 0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U 0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U 0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U 0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U 0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U 0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U 0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U 0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U 0.75	1.9	1

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

Sample Description: SL-104-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-4.0-5.0

LLI Sample # SW 6138685
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:25

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10445 SDG#: DE014-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.75 U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75 U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75 U	0.75	1.9	1
Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	33,600	5.39	21.4	1
07914	Boron	7440-42-8	9.80	0.953	5.36	1
01650	Calcium	7440-70-2	3,360	6.57	21.4	1
01654	Iron	7439-89-6	32,700	10.1	42.9	2
01656	Lithium	7439-93-2	27.6	0.24	2.1	1
01657	Magnesium	7439-95-4	5,410	2.72	10.7	1
06958	Manganese	7439-96-5	189	0.0836	0.536	1
10145	Phosphorus	7723-14-0	129	0.600	10.7	1
01662	Potassium	7440-09-7	2,580	19.3	53.6	1
01667	Sodium	7440-23-5	605	40.0	107	1
07968	Strontium	7440-24-6	39.1	0.0664	0.536	1
06969	Tin	7440-31-5	2.82 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,540	0.846	2.23	2
10146	Zirconium	7440-67-7	4.75 J	0.900	5.36	1
SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0662 U	0.0662	0.221	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.40	0.0662	0.441	2
06126	Barium	7440-39-3	176	0.119	0.441	2
06127	Beryllium	7440-41-7	1.29	0.0176	0.110	2
06128	Cadmium	7440-43-9	0.0613 J	0.0397	0.110	2
06131	Chromium	7440-47-3	33.0	0.132	0.441	2
06132	Cobalt	7440-48-4	9.63	0.0221	0.110	2
06133	Copper	7440-50-8	12.8	0.0728	0.441	2

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

Sample Description: SL-104-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-4.0-5.0

LLI Sample # SW 6138685
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:25

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10445 SDG#: DE014-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	11.6	0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.606	0.0551	0.110	2
06139	Nickel	7440-02-0	17.6	0.110	0.441	2
06141	Selenium	7782-49-2	0.0705 J	0.0441	0.441	2
06142	Silver	7440-22-4	0.0948 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.404	0.0331	0.110	2
06148	Vanadium	7440-62-2	55.1	0.0245	0.111	2
06149	Zinc	7440-66-6	67.1	0.618	3.31	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0056 J	0.0031	0.109	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	6,900	900	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.1 U	10.1	33.7	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	230 J	220	1,100	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	490	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	6.93	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	11.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-104-SA5C-SB-4.5.

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

Sample Description: SL-104-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-4.0-5.0

LLI Sample # SW 6138685
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:25

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 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10445 SDG#: DE014-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103191AA	11/15/2010 21:28	Laura M Krieger	0.9
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103201AA	11/16/2010 17:18	Jason M Long	25.72
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031622930	11/12/2010 15:30	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031622930	11/12/2010 15:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031622930	11/12/2010 15:58	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031622930	11/12/2010 15:31	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 14:06	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10321SLE026	12/01/2010 01:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10321SLE026	11/18/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103200014A	11/25/2010 01:10	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103200014A	11/16/2010 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/21/2010 01:55	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
06970	Titanium	SW-846 6010B	1	103265708001	11/23/2010 20:05	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:05	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 12:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010 12:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 12:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2

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

Sample Description: SL-104-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-4.0-5.0

LLI Sample # SW 6138685
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:25

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10445 SDG#: DE014-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010 22:19	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010 12:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010 20:09	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010 12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010 10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010 12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010 12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103205711001	11/16/2010 14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201A	11/24/2010 19:27	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202B	11/23/2010 20:19	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10324243201A	11/22/2010 12:43	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201A	11/24/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202B	11/23/2010 12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10316691401B	11/12/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10316039403A	11/12/2010 14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010 04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401B	11/18/2010 08:33	William C Schwebel	1

Sample Description: SL-104-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-9.0-10.0

LLI Sample # SW 6138686
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:30

CDM Federal Programs Corp.

Submitted: 11/12/2010 09:10

14420 Albemarle Point Place

Reported: 12/06/2010 16:32

Suite 210

Chantilly VA 20151

10491 SDG#: DE014-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	570	1
04688	Benzyl alcohol	100-51-6	190	U 190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	76	U 76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	76	U 76	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	570	1
04688	Phenol	108-95-2	19	U 19	190	1

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

Sample Description: SL-104-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-9.0-10.0

LLI Sample # SW 6138686
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:30

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10491 SDG#: DE014-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19 U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38 U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38 U	38	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76 U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38 U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38 U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76 U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76 U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76 U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76 U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76 U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8 U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8 U	6.8	20	1
10138	Chrysene	218-01-9	0.38 U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76 U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8 U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8 U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8 U	6.8	20	1
10138	Fluoranthene	206-44-0	0.76 U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76 U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76 U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76 U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76 U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76 U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9	1
Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57 U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57 U	0.57	1.9	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38 U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.38 U	0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,500	5.66	22.5 1

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

Sample Description: SL-104-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-9.0-10.0

LLI Sample # SW 6138686
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:30

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10491 SDG#: DE014-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	5.72	1.00	5.63	1
01650	Calcium	7440-70-2	3,020	6.90	22.5	1
01654	Iron	7439-89-6	21,100	5.30	22.5	1
01656	Lithium	7439-93-2	21.7	0.25	2.3	1
01657	Magnesium	7439-95-4	4,490	2.86	11.3	1
06958	Manganese	7439-96-5	134	0.0878	0.563	1
10145	Phosphorus	7723-14-0	179	0.630	11.3	1
01662	Potassium	7440-09-7	1,920	20.3	56.3	1
01667	Sodium	7440-23-5	564	42.0	113	1
07968	Strontium	7440-24-6	28.1	0.0698	0.563	1
06969	Tin	7440-31-5	2.50 J	1.13	11.3	1
06970	Titanium	7440-32-6	1,370	0.847	2.23	2
10146	Zirconium	7440-67-7	3.23 J	0.945	5.63	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.114 J	0.0668	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.82	0.0668	0.446	2
06126	Barium	7440-39-3	83.4	0.120	0.446	2
06127	Beryllium	7440-41-7	0.893	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.0401 U	0.0401	0.111	2
06131	Chromium	7440-47-3	26.8	0.134	0.446	2
06132	Cobalt	7440-48-4	4.40	0.0223	0.111	2
06133	Copper	7440-50-8	13.3	0.0735	0.446	2
06135	Lead	7439-92-1	7.61	0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.240	0.0557	0.111	2
06139	Nickel	7440-02-0	13.2	0.111	0.446	2
06141	Selenium	7782-49-2	0.0446 U	0.0446	0.446	2
06142	Silver	7440-22-4	0.0242 J	0.0134	0.111	2
06145	Thallium	7440-28-0	0.349	0.0334	0.111	2
06148	Vanadium	7440-62-2	36.6	0.0245	0.111	2
06149	Zinc	7440-66-6	60.7	0.624	3.34	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0084 J	0.0030	0.105	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	5,200	910	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	12.0 J	10.2	34.1	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	340 J	230	1,100	1

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

Sample Description: SL-104-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-9.0-10.0

LLI Sample # SW 6138686
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:30

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10491 SDG#: DE014-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	498	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
			SW-846 9045C modified	Std. Units	Std. Units	Std. Units
00394	pH	n.a.	7.05	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	12.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 14:32	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10321SLE026	12/01/2010 02:09	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10321SLE026	11/18/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103200014A	11/25/2010 02:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103200014A	11/16/2010 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1

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

Sample Description: SL-104-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-104-SA5C-SB-9.0-10.0

LLI Sample # SW 6138686
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 09:30

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10491 SDG#: DE014-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	103265708001	11/23/2010 20:08	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:08	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 12:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010 12:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 12:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010 22:21	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010 12:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010 20:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010 12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010 10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010 12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010 12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103205711001	11/16/2010 14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201A	11/24/2010 20:12	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202B	11/23/2010 20:43	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10324243201A	11/22/2010 13:04	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201A	11/24/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202B	11/23/2010 12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10316691401B	11/12/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10316039403A	11/12/2010 14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010 04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401B	11/18/2010 08:33	William C Schwebel	1



Analysis Report

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

Sample Description: SL-100-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-4.0-5.0

LLI Sample # SW 6138687
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:05

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10045 SDG#: DE014-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7 U	6.7	8.0	0.93
06192	Benzene	71-43-2	0.10 U	0.10	4.0	0.93
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0	0.93
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0	0.93
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0	0.93
06192	Bromoform	75-25-2	0.40 U	0.40	4.0	0.93
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0	0.93
06192	2-Butanone	78-93-3	1.2 U	1.2	8.0	0.93
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0	0.93
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0	0.93
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0	0.93
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0	0.93
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0	0.93
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0	0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0	0.93
06192	Chloroform	67-66-3	0.12 U	0.12	4.0	0.93
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0	0.93
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0	0.93
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0	0.93
06192	Chlorotrifluoroethene	79-38-9	0.50 U	0.50	5.0	0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70 U	0.70	4.0	0.93
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0	0.93
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0	0.93
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0	0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0	0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0	0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0	0.93
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0	0.93
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.0	0.93
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0	0.93
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0	0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0	0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0	0.93
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0	0.93
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0	0.93
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0	0.93
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0	0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0	0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0	0.93
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0	0.93
06192	Freon 113	76-13-1	0.11 U	0.11	4.0	0.93
06192	Freon 133a	75-88-7	0.50 U	0.50	5.0	0.93
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0	0.93
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.0	0.93
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0	0.93
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0	0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0	0.93
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	8.0	0.93
06192	Methylene Chloride	75-09-2	0.24 U	0.24	4.0	0.93
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0	0.93

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

Sample Description: SL-100-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-4.0-5.0

LLI Sample # SW 6138687
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:05

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10045 SDG#: DE014-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.10 U	0.10	4.0	0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0	0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0	0.93
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0	0.93
06192	Toluene	108-88-3	0.10 J	0.08	4.0	0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0	0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0	0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0	0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0	0.93
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0	0.93
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0	0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0	0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0	0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.0	0.93
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0	0.93
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0	0.93
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0	0.93
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.5 U	4.5	13	20.87
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	180	U 180	540	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U 180	540	1
04688	Benzyl alcohol	100-51-6	180	U 180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180	1
04688	Carbazole	86-74-8	18	U 18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180	1
04688	4-Chloroaniline	106-47-8	72	U 72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180	1
04688	2-Chlorophenol	95-57-8	18	U 18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180	1
04688	Dibenzofuran	132-64-9	18	U 18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U 720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180	1

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

Sample Description: SL-100-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-4.0-5.0

LLI Sample # SW 6138687
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:05

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10045 SDG#: DE014-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	36	U 36	180	1
04688	4-Methylphenol	106-44-5	36	U 36	180	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	36	U 36	180	1
04688	4-Nitroaniline	100-01-6	72	U 72	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540	1
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U 0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U 0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U 0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U 0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U 0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	19	1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U 0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U 6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U 0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U 0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U 0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U 0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U 0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U 0.72	1.8	1

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

Sample Description: SL-100-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-4.0-5.0

LLI Sample # SW 6138687
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:05

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10045 SDG#: DE014-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8	1
Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56 U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,700	5.37	21.3	1
07914	Boron	7440-42-8	8.56	0.950	5.33	1
01650	Calcium	7440-70-2	3,940	6.54	21.3	1
01654	Iron	7439-89-6	34,300	10.1	42.7	2
01656	Lithium	7439-93-2	27.5	0.23	2.1	1
01657	Magnesium	7439-95-4	5,910	2.71	10.7	1
06958	Manganese	7439-96-5	747	0.0832	0.533	1
10145	Phosphorus	7723-14-0	128	0.597	10.7	1
01662	Potassium	7440-09-7	2,130	19.2	53.3	1
01667	Sodium	7440-23-5	224	39.8	107	1
07968	Strontium	7440-24-6	43.9	0.0661	0.533	1
06969	Tin	7440-31-5	2.63 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,250	0.795	2.09	2
10146	Zirconium	7440-67-7	3.83 J	0.896	5.33	1
SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.134 J	0.0628	0.209	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.75	0.0628	0.418	2
06126	Barium	7440-39-3	180	0.113	0.418	2
06127	Beryllium	7440-41-7	0.901	0.0167	0.105	2
06128	Cadmium	7440-43-9	0.118	0.0377	0.105	2
06131	Chromium	7440-47-3	30.9	0.126	0.418	2
06132	Cobalt	7440-48-4	7.82	0.0209	0.105	2
06133	Copper	7440-50-8	13.4	0.0690	0.418	2

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

Sample Description: SL-100-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-4.0-5.0

LLI Sample # SW 6138687
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:05

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10045 SDG#: DE014-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	7.91	0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.376	0.0523	0.105	2
06139	Nickel	7440-02-0	17.4	0.105	0.418	2
06141	Selenium	7782-49-2	0.0606 J	0.0418	0.418	2
06142	Silver	7440-22-4	0.0537 J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.423	0.0314	0.105	2
06148	Vanadium	7440-62-2	46.6	0.0230	0.105	2
06149	Zinc	7440-66-6	62.8	0.586	3.14	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0092 J	0.0029	0.102	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	2,500	860	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.7 U	9.7	32.3	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	1,200	220	1,100	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	500	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	6.82	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	7.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-100-SA5C-SB-4.5.

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

Sample Description: SL-100-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-4.0-5.0

LLI Sample # SW 6138687
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:05

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10045 SDG#: DE014-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103191AA	11/15/2010 21:51	Laura M Krieger	0.93
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103201AA	11/16/2010 17:37	Jason M Long	20.87
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031622930	11/12/2010 15:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031622930	11/12/2010 15:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031622930	11/12/2010 15:58	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031622930	11/12/2010 15:37	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 14:58	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10321SLE026	12/01/2010 02:44	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10321SLE026	11/18/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103200014A	11/25/2010 02:24	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103200014A	11/16/2010 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/21/2010 01:59	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	103265708001	11/23/2010 20:11	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:11	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 12:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010 12:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 12:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2

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

Sample Description: SL-100-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-4.0-5.0

LLI Sample # SW 6138687
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:05

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10045 SDG#: DE014-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010 22:23	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010 12:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010 20:12	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010 12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010 10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010 12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010 12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103205711001	11/16/2010 14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201A	11/24/2010 20:28	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202B	11/23/2010 21:07	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10324243201A	11/22/2010 13:18	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201A	11/24/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202B	11/23/2010 12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10316691401B	11/12/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10316039403A	11/12/2010 14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010 04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401B	11/18/2010 08:33	William C Schwebel	1

Sample Description: SL-100-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-8.5-9.5

LLI Sample # SW 6138688
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:10

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10089 SDG#: DE014-04

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

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

Sample Description: SL-100-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-8.5-9.5

LLI Sample # SW 6138688
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:10

CDM Federal Programs Corp.

Submitted: 11/12/2010 09:10

14420 Albemarle Point Place

Reported: 12/06/2010 16:32

Suite 210

Chantilly VA 20151

10089 SDG#: DE014-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C						
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Acenaphthene	83-32-9	0.75	U 0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U 0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U 0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U 0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U 0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U 0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U 0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U 0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U 0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U 0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U 0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U 0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U 0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U 0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U 6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U 0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U 0.75	1.9	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U 0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U 0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U 0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U 0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U 0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U 0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U 0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U 0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U 0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B						
			mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,200	5.63	22.4	1

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

Sample Description: SL-100-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-8.5-9.5

LLI Sample # SW 6138688
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:10

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10089 SDG#: DE014-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	7.85	0.996	5.59	1
01650	Calcium	7440-70-2	3,400	6.86	22.4	1
01654	Iron	7439-89-6	36,400	10.5	44.7	2
01656	Lithium	7439-93-2	28.9	0.25	2.2	1
01657	Magnesium	7439-95-4	4,780	2.84	11.2	1
06958	Manganese	7439-96-5	338	0.0872	0.559	1
10145	Phosphorus	7723-14-0	242	0.626	11.2	1
01662	Potassium	7440-09-7	2,020	20.1	55.9	1
01667	Sodium	7440-23-5	181	41.7	112	1
07968	Strontium	7440-24-6	33.6	0.0694	0.559	1
06969	Tin	7440-31-5	2.71 J	1.12	11.2	1
06970	Titanium	7440-32-6	1,080	0.842	2.21	2
10146	Zirconium	7440-67-7	4.52 J	0.940	5.59	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0986 J	0.0664	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	8.03	0.0664	0.443	2
06126	Barium	7440-39-3	110	0.120	0.443	2
06127	Beryllium	7440-41-7	0.857	0.0177	0.111	2
06128	Cadmium	7440-43-9	0.113	0.0399	0.111	2
06131	Chromium	7440-47-3	27.7	0.133	0.443	2
06132	Cobalt	7440-48-4	9.40	0.0221	0.111	2
06133	Copper	7440-50-8	16.4	0.0731	0.443	2
06135	Lead	7439-92-1	9.57	0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.403	0.0554	0.111	2
06139	Nickel	7440-02-0	15.9	0.111	0.443	2
06141	Selenium	7782-49-2	0.0443 U	0.0443	0.443	2
06142	Silver	7440-22-4	0.0833 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.341	0.0332	0.111	2
06148	Vanadium	7440-62-2	40.6	0.0237	0.108	2
06149	Zinc	7440-66-6	59.9	0.620	3.32	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0126 J	0.0030	0.104	1
Wet Chemistry						
	EPA 300.0		ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	4,500	890	1,100	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.1 U	10.1	33.6	1
	SW-846 7199		ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	290 J	220	1,100	1

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

Sample Description: SL-100-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-8.5-9.5

LLI Sample # SW 6138688
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:10

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10089 SDG#: DE014-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	494	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	6.87	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	10.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 15:24	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10321SLE026	12/01/2010 03:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10321SLE026	11/18/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103200014A	11/25/2010 02:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103200014A	11/16/2010 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/21/2010 02:03	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1

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

Sample Description: SL-100-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-100-SA5C-SB-8.5-9.5

LLI Sample # SW 6138688
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 13:10

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10089 SDG#: DE014-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	103265708001	11/23/2010 20:14	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:15	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 12:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010 12:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 12:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010 22:25	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010 12:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010 20:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010 12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010 10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010 12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010 12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103205711001	11/16/2010 14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201A	11/24/2010 20:43	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202B	11/23/2010 21:31	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10324243201A	11/22/2010 13:32	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201A	11/24/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202B	11/23/2010 12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10316691401B	11/12/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10316039403A	11/12/2010 14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010 04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401B	11/18/2010 08:33	William C Schwebel	1

Sample Description: SL-101-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-101-SA5C-SB-4.0-5.0

LLI Sample # SW 6138689
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 10:45

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10145 SDG#: DE014-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2 U	6.2	7.4	0.86
06192	Benzene	71-43-2	0.09 U	0.09	3.7	0.86
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.7	0.86
06192	Bromochloromethane	74-97-5	0.30 U	0.30	3.7	0.86
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.7	0.86
06192	Bromoform	75-25-2	0.37 U	0.37	3.7	0.86
06192	Bromomethane	74-83-9	0.23 U	0.23	3.7	0.86
06192	2-Butanone	78-93-3	1.1 U	1.1	7.4	0.86
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.7	0.86
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.7	0.86
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.7	0.86
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.7	0.86
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.7	0.86
06192	Chloroethane	75-00-3	0.12 U	0.12	3.7	0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28 U	0.28	3.7	0.86
06192	Chloroform	67-66-3	0.11 U	0.11	3.7	0.86
06192	Chloromethane	74-87-3	0.30 U	0.30	3.7	0.86
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.7	0.86
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.7	0.86
06192	Chlorotrifluoroethene	79-38-9	0.46 U	0.46	4.6	0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64 U	0.64	3.7	0.86
06192	Dibromochloromethane	124-48-1	0.18 U	0.18	3.7	0.86
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.7	0.86
06192	Dibromomethane	74-95-3	0.22 U	0.22	3.7	0.86
06192	1,2-Dichlorobenzene	95-50-1	0.08 U	0.08	3.7	0.86
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.7	0.86
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.7	0.86
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.7	0.86
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.7	0.86
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.7	0.86
06192	1,1-Dichloroethene	75-35-4	0.36 U	0.36	3.7	0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.17 U	0.17	3.7	0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.7	0.86
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.7	0.86
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.7	0.86
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.7	0.86
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.7	0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.7	0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.7	0.86
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.7	0.86
06192	Freon 113	76-13-1	0.10 U	0.10	3.7	0.86
06192	Freon 133a	75-88-7	0.46 U	0.46	4.6	0.86
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.7	0.86
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.4	0.86
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.7	0.86
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.7	0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19 U	0.19	3.7	0.86
06192	4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	7.4	0.86
06192	Methylene Chloride	75-09-2	0.22 U	0.22	3.7	0.86
06192	n-Propylbenzene	103-65-1	0.06 U	0.06	3.7	0.86

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

Sample Description: SL-101-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-101-SA5C-SB-4.0-5.0

LLI Sample # SW 6138689
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 10:45

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10145 SDG#: DE014-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.09 U	0.09 ug/kg	3.7 ug/kg	0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10 ug/kg	3.7 ug/kg	0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21 U	0.21 ug/kg	3.7 ug/kg	0.86
06192	Tetrachloroethene	127-18-4	0.18 U	0.18 ug/kg	3.7 ug/kg	0.86
06192	Toluene	108-88-3	0.11 J	0.07 ug/kg	3.7 ug/kg	0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13 ug/kg	3.7 ug/kg	0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17 ug/kg	3.7 ug/kg	0.86
06192	1,1,1-Trichloroethane	71-55-6	0.18 U	0.18 ug/kg	3.7 ug/kg	0.86
06192	1,1,2-Trichloroethane	79-00-5	0.25 U	0.25 ug/kg	3.7 ug/kg	0.86
06192	Trichloroethene	79-01-6	0.14 U	0.14 ug/kg	3.7 ug/kg	0.86
06192	Trichlorofluoromethane	75-69-4	0.27 U	0.27 ug/kg	3.7 ug/kg	0.86
06192	1,2,3-Trichloropropane	96-18-4	0.30 U	0.30 ug/kg	3.7 ug/kg	0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.37 U	0.37 ug/kg	3.7 ug/kg	0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09 ug/kg	3.7 ug/kg	0.86
06192	Vinyl Chloride	75-01-4	0.18 U	0.18 ug/kg	3.7 ug/kg	0.86
06192	m+p-Xylene	179601-23-1	0.16 U	0.16 ug/kg	3.7 ug/kg	0.86
06192	o-Xylene	95-47-6	0.16 U	0.16 ug/kg	3.7 ug/kg	0.86
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.2 U	4.2 ug/kg	13 ug/kg	19.72
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	180 U	180 ug/kg	540 ug/kg	1
04688	Benzidine	92-87-5	1,300 U	1,300 ug/kg	3,600 ug/kg	1
04688	Benzoic acid	65-85-0	180 U	180 ug/kg	540 ug/kg	1
04688	Benzyl alcohol	100-51-6	180 U	180 ug/kg	540 ug/kg	1
04688	4-Bromophenyl-phenylether	101-55-3	18 U	18 ug/kg	180 ug/kg	1
04688	Carbazole	86-74-8	18 U	18 ug/kg	180 ug/kg	1
04688	4-Chloro-3-methylphenol	59-50-7	36 U	36 ug/kg	180 ug/kg	1
04688	4-Chloroaniline	106-47-8	71 U	71 ug/kg	180 ug/kg	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18 U	18 ug/kg	180 ug/kg	1
04688	bis(2-Chloroethyl)ether	111-44-4	18 U	18 ug/kg	180 ug/kg	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18 U	18 ug/kg	180 ug/kg	1
04688	2-Chloronaphthalene	91-58-7	18 U	18 ug/kg	180 ug/kg	1
04688	2-Chlorophenol	95-57-8	18 U	18 ug/kg	180 ug/kg	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36 U	36 ug/kg	180 ug/kg	1
04688	Dibenzofuran	132-64-9	18 U	18 ug/kg	180 ug/kg	1
04688	1,2-Dichlorobenzene	95-50-1	18 U	18 ug/kg	180 ug/kg	1
04688	1,3-Dichlorobenzene	541-73-1	18 U	18 ug/kg	180 ug/kg	1
04688	1,4-Dichlorobenzene	106-46-7	18 U	18 ug/kg	180 ug/kg	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110 ug/kg	360 ug/kg	1
04688	2,4-Dichlorophenol	120-83-2	18 U	18 ug/kg	180 ug/kg	1
04688	2,4-Dimethylphenol	105-67-9	36 U	36 ug/kg	180 ug/kg	1
04688	3,5-Dimethylphenol	108-68-9	36 U	36 ug/kg	180 ug/kg	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180 U	180 ug/kg	540 ug/kg	1
04688	2,4-Dinitrophenol	51-28-5	710 U	710 ug/kg	2,100 ug/kg	1
04688	2,4-Dinitrotoluene	121-14-2	36 U	36 ug/kg	180 ug/kg	1
04688	2,6-Dinitrotoluene	606-20-2	18 U	18 ug/kg	180 ug/kg	1
04688	1,2-Diphenylhydrazine	122-66-7	18 U	18 ug/kg	180 ug/kg	1

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

Sample Description: SL-101-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-101-SA5C-SB-4.0-5.0

LLI Sample # SW 6138689
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 10:45

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10145 SDG#: DE014-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	36	U 36	180	1
04688	4-Methylphenol	106-44-5	36	U 36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	36	U 36	180	1
04688	4-Nitroaniline	100-01-6	71	U 71	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	180	U 180	540	1
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U 0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U 0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U 0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U 0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U 0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U 6.4	19	1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U 0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U 6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U 0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U 0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U 0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U 0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U 0.71	1.8	1

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

Sample Description: SL-101-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-101-SA5C-SB-4.0-5.0

LLI Sample # SW 6138689
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 10:45

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10145 SDG#: DE014-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.71 U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4 U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71 U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71 U	0.71	1.8	1
Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35 U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56 U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.35 U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35 U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35 U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35 U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35 U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	32,400	5.29	21.0	1
07914	Boron	7440-42-8	9.93	0.935	5.25	1
01650	Calcium	7440-70-2	6,270	6.44	21.0	1
01654	Iron	7439-89-6	41,800	9.90	42.0	2
01656	Lithium	7439-93-2	52.0	0.23	2.1	1
01657	Magnesium	7439-95-4	8,840	2.67	10.5	1
06958	Manganese	7439-96-5	383	0.0820	0.525	1
10145	Phosphorus	7723-14-0	127	0.588	10.5	1
01662	Potassium	7440-09-7	1,780	18.9	52.5	1
01667	Sodium	7440-23-5	340	39.2	105	1
07968	Strontium	7440-24-6	54.7	0.0651	0.525	1
06969	Tin	7440-31-5	2.98 J	1.05	10.5	1
06970	Titanium	7440-32-6	1,300	0.815	2.14	2
10146	Zirconium	7440-67-7	4.41 J	0.883	5.25	1
SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.118 J	0.0643	0.214	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.2	0.0643	0.429	2
06126	Barium	7440-39-3	215	0.289	1.07	5
06127	Beryllium	7440-41-7	1.30	0.0171	0.107	2
06128	Cadmium	7440-43-9	0.172	0.0386	0.107	2
06131	Chromium	7440-47-3	43.0	0.129	0.429	2
06132	Cobalt	7440-48-4	35.1	0.0214	0.107	2
06133	Copper	7440-50-8	32.5	0.0707	0.429	2

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

Sample Description: SL-101-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-101-SA5C-SB-4.0-5.0

LLI Sample # SW 6138689
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 10:45

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10145 SDG#: DE014-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	25.2	0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.191	0.0536	0.107	2
06139	Nickel	7440-02-0	29.1	0.107	0.429	2
06141	Selenium	7782-49-2	0.0767 J	0.0429	0.429	2
06142	Silver	7440-22-4	0.114	0.0129	0.107	2
06145	Thallium	7440-28-0	0.392	0.0322	0.107	2
06148	Vanadium	7440-62-2	45.7	0.0233	0.106	2
06149	Zinc	7440-66-6	89.1	0.600	3.22	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0209 J	0.0030	0.106	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	2,600	860	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	14.6 J	9.6	32.2	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	390 J	210	1,100	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	518	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.16	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	6.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-101-SA5C-SB-4.5.

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

Sample Description: SL-101-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-101-SA5C-SB-4.0-5.0

LLI Sample # SW 6138689
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 10:45

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10145 SDG#: DE014-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103191AA	11/15/2010 22:14	Laura M Krieger	0.86
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103201AA	11/16/2010 17:57	Jason M Long	19.72
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031622930	11/12/2010 15:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031622930	11/12/2010 15:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031622930	11/12/2010 15:58	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031622930	11/12/2010 15:41	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 15:50	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10321SLE026	12/01/2010 03:51	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10321SLE026	11/18/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103200014A	11/25/2010 03:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103200014A	11/16/2010 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/21/2010 02:07	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
06970	Titanium	SW-846 6010B	1	103265708001	11/23/2010 20:18	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:18	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/22/2010 13:53	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010 12:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 12:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2

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

Sample Description: SL-101-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-101-SA5C-SB-4.0-5.0

LLI Sample # SW 6138689
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 10:45

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

10145 SDG#: DE014-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010 22:27	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010 12:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010 20:14	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010 12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010 10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010 12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010 12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103205711001	11/16/2010 14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201A	11/24/2010 20:58	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202B	11/23/2010 21:55	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10324243201A	11/22/2010 13:53	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201A	11/24/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202B	11/23/2010 12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10316691401B	11/12/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10316039403A	11/12/2010 14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010 04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401B	11/18/2010 08:33	William C Schwebel	1

Sample Description: SL-086-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-086-SA5C-SB-4.0-5.0

LLI Sample # SW 6138690
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 15:20

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

08645 SDG#: DE014-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9 U	6.9	8.2	0.94
06192	Benzene	71-43-2	0.10 U	0.10	4.1	0.94
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1	0.94
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1	0.94
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1	0.94
06192	Bromoform	75-25-2	0.41 U	0.41	4.1	0.94
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1	0.94
06192	2-Butanone	78-93-3	1.3 U	1.3	8.2	0.94
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1	0.94
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1	0.94
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.1	0.94
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1	0.94
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1	0.94
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1	0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1	0.94
06192	Chloroform	67-66-3	0.12 U	0.12	4.1	0.94
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1	0.94
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1	0.94
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1	0.94
06192	Chlorotrifluoroethene	79-38-9	0.51 U	0.51	5.1	0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1	0.94
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1	0.94
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.1	0.94
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1	0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1	0.94
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1	0.94
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.1	0.94
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1	0.94
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1	0.94
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.1	0.94
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1	0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.1	0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1	0.94
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.1	0.94
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1	0.94
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.1	0.94
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1	0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.1	0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.1	0.94
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1	0.94
06192	Freon 113	76-13-1	0.11 U	0.11	4.1	0.94
06192	Freon 133a	75-88-7	0.51 U	0.51	5.1	0.94
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1	0.94
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.2	0.94
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1	0.94
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1	0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1	0.94
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.2	0.94
06192	Methylene Chloride	75-09-2	0.25 U	0.25	4.1	0.94
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1	0.94

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

Sample Description: SL-086-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-086-SA5C-SB-4.0-5.0

LLI Sample # SW 6138690
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 15:20

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

08645 SDG#: DE014-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.10 U	0.10	4.1	0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1	0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1	0.94
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1	0.94
06192	Toluene	108-88-3	0.13 J	0.08	4.1	0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1	0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.1	0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1	0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1	0.94
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.1	0.94
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1	0.94
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1	0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1	0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1	0.94
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1	0.94
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.1	0.94
06192	o-Xylene	95-47-6	0.17 U	0.17	4.1	0.94
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	6.1 U	6.1	18	27.78
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	180	U 180	550	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U 180	550	1
04688	Benzyl alcohol	100-51-6	180	U 180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180	1
04688	Carbazole	86-74-8	18	U 18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	180	1
04688	4-Chloroaniline	106-47-8	73	U 73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180	1
04688	2-Chlorophenol	95-57-8	18	U 18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	180	1
04688	Dibenzofuran	132-64-9	18	U 18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U 730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180	1

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

Sample Description: SL-086-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-086-SA5C-SB-4.0-5.0

LLI Sample # SW 6138690
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 15:20

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

08645 SDG#: DE014-06

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

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

Sample Description: SL-086-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-086-SA5C-SB-4.0-5.0

LLI Sample # SW 6138690
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 15:20

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

08645 SDG#: DE014-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8	1
Pesticides/PCBs SW-846 8082			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B		mg/kg	mg/kg	mg/kg		
01643	Aluminum	7429-90-5	25,000	5.51	21.9	1
07914	Boron	7440-42-8	6.67	0.975	5.48	1
01650	Calcium	7440-70-2	2,660	6.71	21.9	1
01654	Iron	7439-89-6	24,100	5.16	21.9	1
01656	Lithium	7439-93-2	19.8	0.24	2.2	1
01657	Magnesium	7439-95-4	3,920	2.78	11.0	1
06958	Manganese	7439-96-5	138	0.0854	0.548	1
10145	Phosphorus	7723-14-0	133	0.613	11.0	1
01662	Potassium	7440-09-7	1,780	19.7	54.8	1
01667	Sodium	7440-23-5	216	40.9	110	1
07968	Strontium	7440-24-6	30.2	0.0679	0.548	1
06969	Tin	7440-31-5	2.40 J	1.10	11.0	1
06970	Titanium	7440-32-6	1,210	0.800	2.11	2
10146	Zirconium	7440-67-7	3.00 J	0.920	5.48	1
SW-846 6020		mg/kg	mg/kg	mg/kg		
06124	Antimony	7440-36-0	0.129 J	0.0626	0.209	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.82	0.0626	0.417	2
06126	Barium	7440-39-3	94.9	0.113	0.417	2
06127	Beryllium	7440-41-7	0.782	0.0167	0.104	2
06128	Cadmium	7440-43-9	0.0424 J	0.0376	0.104	2
06131	Chromium	7440-47-3	25.0	0.125	0.417	2
06132	Cobalt	7440-48-4	4.65	0.0209	0.104	2
06133	Copper	7440-50-8	6.85	0.0688	0.417	2

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

Sample Description: SL-086-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-086-SA5C-SB-4.0-5.0

LLI Sample # SW 6138690
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 15:20

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

08645 SDG#: DE014-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	8.09	0.0108	0.209	2
06138	Molybdenum	7439-98-7	0.514	0.0522	0.104	2
06139	Nickel	7440-02-0	12.0	0.104	0.417	2
06141	Selenium	7782-49-2	0.188 J	0.0417	0.417	2
06142	Silver	7440-22-4	0.0767 J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.281	0.0313	0.104	2
06148	Vanadium	7440-62-2	39.1	0.0236	0.107	2
06149	Zinc	7440-66-6	44.2	0.584	3.13	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	3,600	880	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.9 U	9.9	32.9	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	330 J	220	1,100	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	502	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	6.92	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	8.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-086-SA5C-SB-4.5.

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

Sample Description: SL-086-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-086-SA5C-SB-4.0-5.0

LLI Sample # SW 6138690
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 15:20

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

08645 SDG#: DE014-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103191AA	11/15/2010 22:36	Laura M Krieger	0.94
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103201AA	11/16/2010 18:16	Jason M Long	27.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031622930	11/12/2010 15:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031622930	11/12/2010 15:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031622930	11/12/2010 15:58	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031622930	11/12/2010 15:45	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 16:16	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10321SLE026	12/01/2010 04:25	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10321SLE026	11/18/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103200014A	11/25/2010 03:20	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103200014A	11/16/2010 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	103265708001	11/24/2010 13:33	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:28	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 12:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010 12:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 12:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 12:38	Choon Y Tian	2

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

Sample Description: SL-086-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-086-SA5C-SB-4.0-5.0

LLI Sample # SW 6138690
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 15:20

CDM Federal Programs Corp.

Submitted: 11/12/2010 09:10

14420 Albemarle Point Place

Reported: 12/06/2010 16:32

Suite 210

Chantilly VA 20151

08645 SDG#: DE014-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010	22:29	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010	12:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010	20:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010	12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010	10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010	12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010	12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103205711001	11/16/2010	14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201A	11/24/2010	21:13	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10327327202B	11/23/2010	22:19	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10324243201A	11/22/2010	14:07	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201A	11/24/2010	13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10327327202B	11/23/2010	12:50	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10316691401B	11/12/2010	12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10316039403A	11/12/2010	14:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10324243201A	11/20/2010	04:55	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10322162401B	11/18/2010	08:33	William C Schwebel	1

Sample Description: TB-111110 Water
 SSFL Area IV Collocated Soil Sampling
 TB-111110

LLI Sample # WW 6138691
 LLI Group # 1220967
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 15:00

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

TB111 SDG#: DE014-07TB

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

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



Analysis Report

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

Sample Description: TB-111110 Water
 SSFL Area IV Collocated Soil Sampling
 TB-111110

LLI Sample # WW 6138691
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 15:00

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

TB111 SDG#: DE014-07TB

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103191AA	11/15/2010 13:19	Nicholas R Rossi	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103171AA	11/13/2010 12:42	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103171AA	11/13/2010 12:42	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103191AA	11/15/2010 13:19	Nicholas R Rossi	1

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

Sample Description: EB07-SA5C-111110 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5C-111110

LLI Sample # WW 6138692
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 11:30

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

EB-07 SDG#: DE014-08EB*

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

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

Sample Description: EB07-SA5C-111110 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5C-111110

LLI Sample # WW 6138692
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 11:30

CDM Federal Programs Corp.

Submitted: 11/12/2010 09:10

14420 Albemarle Point Place

Reported: 12/06/2010 16:32

Suite 210

Chantilly VA 20151

EB-07 SDG#: DE014-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	20	U	20	59	1
04678	Benzoic acid	65-85-0	6	U	6	15	1
04678	Benzyl alcohol	100-51-6	5	U	5	15	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15	1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1

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

Sample Description: EB07-SA5C-111110 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5C-111110

LLI Sample # WW 6138692
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 11:30

CDM Federal Programs Corp.

Submitted: 11/12/2010 09:10

14420 Albemarle Point Place

Reported: 12/06/2010 16:32

Suite 210

Chantilly VA 20151

EB-07 SDG#: DE014-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l		
04678	2,6-Dinitrotoluene	606-20-2	1 U	1	5	1	
04678	1,2-Diphenylhydrazine	122-66-7	1 U	1	5	1	
04678	Hexachlorobenzene	118-74-1	1 U	1	5	1	
04678	Hexachlorobutadiene	87-68-3	1 U	1	5	1	
04678	Hexachlorocyclopentadiene	77-47-4	5 U	5	15	1	
04678	Hexachloroethane	67-72-1	1 U	1	5	1	
04678	Isophorone	78-59-1	1 U	1	5	1	
04678	2-Methylphenol	95-48-7	1 U	1	5	1	
04678	4-Methylphenol	106-44-5	2 U	2	5	1	
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1 U	1	5	1	
04678	3-Nitroaniline	99-09-2	1 U	1	5	1	
04678	4-Nitroaniline	100-01-6	1 U	1	5	1	
04678	Nitrobenzene	98-95-3	1 U	1	5	1	
04678	2-Nitrophenol	88-75-5	1 U	1	5	1	
04678	4-Nitrophenol	100-02-7	10 U	10	29	1	
04678	N-Nitroso-di-n-propylamine	621-64-7	1 U	1	5	1	
04678	N-Nitrosodiphenylamine	86-30-6	2 U	2	5	1	
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3 U	3	15	1	
04678	Phenol	108-95-2	1 U	1	5	1	
04678	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1	
04678	2,4,5-Trichlorophenol	95-95-4	1 U	1	5	1	
04678	2,4,6-Trichlorophenol	88-06-2	1 U	1	5	1	
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l		
10137	Acenaphthene	83-32-9	0.0097 U	0.0097	0.048	1	
10137	Acenaphthylene	208-96-8	0.0097 U	0.0097	0.048	1	
10137	Anthracene	120-12-7	0.0097 U	0.0097	0.048	1	
10137	Benzo(a)anthracene	56-55-3	0.0097 U	0.0097	0.048	1	
10137	Benzo(a)pyrene	50-32-8	0.0097 U	0.0097	0.048	1	
10137	Benzo(b)fluoranthene	205-99-2	0.0097 U	0.0097	0.048	1	
10137	Benzo(g,h,i)perylene	191-24-2	0.0097 U	0.0097	0.048	1	
10137	Benzo(k)fluoranthene	207-08-9	0.0097 U	0.0097	0.048	1	
10137	Butylbenzylphthalate	85-68-7	0.048 U	0.048	0.97	1	
10137	Di-n-butylphthalate	84-74-2	0.23 J	0.048	0.97	1	
10137	Chrysene	218-01-9	0.0097 U	0.0097	0.048	1	
10137	Dibenz(a,h)anthracene	53-70-3	0.0097 U	0.0097	0.048	1	
10137	Diethylphthalate	84-66-2	0.12 J	0.048	0.97	1	
10137	Dimethylphthalate	131-11-3	0.048 U	0.048	0.97	1	
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.20 J	0.048	0.97	1	
10137	Fluoranthene	206-44-0	0.0097 U	0.0097	0.048	1	
10137	Fluorene	86-73-7	0.0097 U	0.0097	0.048	1	
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0097 U	0.0097	0.048	1	
10137	1-Methylnaphthalene	90-12-0	0.0097 U	0.0097	0.048	1	

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

Sample Description: EB07-SA5C-111110 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5C-111110

LLI Sample # WW 6138692
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 11:30

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

EB-07 SDG#: DE014-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10137	2-Methylnaphthalene	91-57-6	0.0097 U	0.0097	0.048	1
10137	Naphthalene	91-20-3	0.058	0.0097	0.048	1
10137	N-Nitrosodimethylamine	62-75-9	0.0097 U	0.0097	0.048	1
10137	Di-n-octylphthalate	117-84-0	0.048 U	0.048	0.97	1
10137	Phenanthrene	85-01-8	0.0097 U	0.0097	0.048	1
10137	Pyrene	129-00-0	0.0097 U	0.0097	0.048	1

The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.

Pesticides/PCBs SW-846 8082						
			ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.097 U	0.097	0.49	1
10227	Aroclor 5442	12642-23-8	0.097 U	0.097	0.49	1
10227	Aroclor 5460	11126-42-4	0.097 U	0.097	0.49	1
10227	PCB-1016	12674-11-2	0.097 U	0.097	0.49	1
10227	PCB-1221	11104-28-2	0.097 U	0.097	0.49	1
10227	PCB-1232	11141-16-5	0.19 U	0.19	0.49	1
10227	PCB-1242	53469-21-9	0.097 U	0.097	0.49	1
10227	PCB-1248	12672-29-6	0.097 U	0.097	0.49	1
10227	PCB-1254	11097-69-1	0.097 U	0.097	0.49	1
10227	PCB-1260	11096-82-5	0.097 U	0.097	0.49	1
10227	PCB-1262	37324-23-5	0.19 U	0.19	0.49	1
10227	PCB-1268	11100-14-4	0.16 U	0.16	0.49	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B						
			mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1

SW-846 6020						
			mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00060 J	0.00038	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1

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

Sample Description: EB07-SA5C-111110 Water
 SSFL Area IV Collocated Soil Sampling
 EB07-SA5C-111110

LLI Sample # WW 6138692
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 11:30

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

EB-07 SDG#: DE014-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/l	mg/l	mg/l	
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000057 J	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000056 U	0.000056	0.00020	1
Wet Chemistry						
		EPA 300.0	mg/l	mg/l	mg/l	
01504	Fluoride	16984-48-8	0.080 U	0.080	0.10	1
		EPA 314.0	ug/l	ug/l	ug/l	
06019	Perchlorate	14797-73-0	0.70 U	0.70	2.0	1
		SW-846 7199	ug/l	ug/l	ug/l	
06467	Hexavalent Chromium (water)	18540-29-9	5.0 U	5.0	10.0	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103191AA	11/15/2010 13:40	Nicholas R Rossi	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103171AA	11/13/2010 13:02	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103171AA	11/13/2010 13:02	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103191AA	11/15/2010 13:40	Nicholas R Rossi	1
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10319WAWJ026	11/17/2010 02:17	Florida A Cimino	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10316WAP026	11/30/2010 23:23	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10319WAWJ026	11/15/2010 14:00	Olivia I Santiago	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10316WAP026	11/14/2010 14:00	Elaine F Stoltzfus	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103200017A	11/24/2010 18:23	Richard A Shober	1

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

Sample Description: EB07-SA5C-111110 Water
 SSFL Area IV Collocated Soil Sampling
 EB07-SA5C-111110

LLI Sample # WW 6138692
LLI Group # 1220967
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/11/2010 11:30

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

Submitted: 11/12/2010 09:10

Reported: 12/06/2010 16:32

EB-07 SDG#: DE014-08EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11117	PCB Waters Extraction	SW-846 3510C	1	103200017A	11/16/2010 22:15	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
08014	Boron	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
01750	Calcium	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
01754	Iron	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
01756	Lithium	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
07058	Manganese	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
01762	Potassium	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
01767	Sodium	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
08068	Strontium	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
07069	Tin	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
07070	Titanium	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103161848002	11/16/2010 18:30	John P Hook	1
06024	Antimony	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103166050002D	11/17/2010 10:57	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103166050002C	11/17/2010 10:57	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103166050002B	11/17/2010 10:57	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103166050002A	11/17/2010 10:57	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103225713003	11/19/2010 06:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103161848002	11/14/2010 11:30	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103166050002	11/14/2010 12:07	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103225713003	11/18/2010 16:10	Nelli S Markaryan	1
01504	Fluoride	EPA 300.0	1	10321196903A	11/18/2010 05:15	Ashley M Adams	1
06019	Perchlorate	EPA 314.0	1	10322621701A	11/19/2010 11:25	William L Hamaker Jr	1
06467	Hexavalent Chromium (water)	SW-846 7199	1	10316621301A	11/12/2010 10:28	William L Hamaker Jr	1

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B103191AA	Sample number(s): 6138685,6138687,6138689-6138690								
Acetone	6.7	U 6.7	8.0	ug/kg	110		32-209		
Benzene	0.10	U 0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U 0.13	4.0	ug/kg	102		79-120		
Bromochloromethane	0.33	U 0.33	4.0	ug/kg	147*		79-124		
Bromodichloromethane	0.08	U 0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40	U 0.40	4.0	ug/kg	91		70-120		
Bromomethane	0.25	U 0.25	4.0	ug/kg	78		32-162		
2-Butanone	1.2	U 1.2	8.0	ug/kg	99		46-153		
n-Butylbenzene	0.12	U 0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06	U 0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U 0.16	4.0	ug/kg	98		75-120		
Carbon Tetrachloride	0.14	U 0.14	4.0	ug/kg	98		69-122		
Chlorobenzene	0.11	U 0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U 0.13	4.0	ug/kg	76		37-154		
2-Chloroethyl Vinyl Ether	0.30	U 0.30	4.0	ug/kg	100		43-146		
Chloroform	0.12	U 0.12	4.0	ug/kg	104		80-120		
Chloromethane	0.33	U 0.33	4.0	ug/kg	84		54-132		
2-Chlorotoluene	0.14	U 0.14	4.0	ug/kg	100		78-120		
4-Chlorotoluene	0.14	U 0.14	4.0	ug/kg	99		79-120		
Chlorotrifluoroethene	0.50	U 0.50	5.0	ug/kg	147*		22-131		
1,2-Dibromo-3-chloropropane	0.70	U 0.70	4.0	ug/kg	90		58-120		
Dibromochloromethane	0.20	U 0.20	4.0	ug/kg	94		77-120		
1,2-Dibromoethane	0.17	U 0.17	4.0	ug/kg	99		80-120		
Dibromomethane	0.24	U 0.24	4.0	ug/kg	104		80-120		
1,2-Dichlorobenzene	0.09	U 0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U 0.12	4.0	ug/kg	99		78-120		
1,4-Dichlorobenzene	0.16	U 0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U 0.12	4.0	ug/kg	69		20-120		
1,1-Dichloroethane	0.10	U 0.10	4.0	ug/kg	103		80-120		
1,2-Dichloroethane	0.15	U 0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U 0.39	4.0	ug/kg	106		73-123		
cis-1,2-Dichloroethene	0.19	U 0.19	4.0	ug/kg	108		80-120		
trans-1,2-Dichloroethene	0.12	U 0.12	4.0	ug/kg	99		79-120		
1,2-Dichloropropane	0.17	U 0.17	4.0	ug/kg	101		80-120		
1,3-Dichloropropane	0.08	U 0.08	4.0	ug/kg	98		80-120		
2,2-Dichloropropane	0.17	U 0.17	4.0	ug/kg	88		72-123		
1,1-Dichloropropene	0.13	U 0.13	4.0	ug/kg	105		77-120		
cis-1,3-Dichloropropene	0.16	U 0.16	4.0	ug/kg	94		80-120		
trans-1,3-Dichloropropene	0.17	U 0.17	4.0	ug/kg	84		77-120		
Ethylbenzene	0.12	J 0.06	4.0	ug/kg	101		80-120		
Freon 113	0.11	U 0.11	4.0	ug/kg	115		61-126		
Freon 133a	0.50	U 0.50	5.0	ug/kg	97		78-120		
Hexachlorobutadiene	0.14	U 0.14	4.0	ug/kg	104		57-120		
2-Hexanone	1.6	U 1.6	8.0	ug/kg	92		45-155		
Isopropylbenzene	0.06	U 0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U 0.11	4.0	ug/kg	103		75-120		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	99		61-134		
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	93		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	104		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	97		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	94		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	99		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	103		77-120		
Toluene	0.40 J	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	95		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	95		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	99		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	104		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	89		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	103		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	103		79-120		
1,3,5-Trimethylbenzene	0.16 J	0.10	4.0	ug/kg	100		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	79		53-120		
m+p-Xylene	0.41 J	0.17	4.0	ug/kg	101		80-120		
o-Xylene	0.19 J	0.17	4.0	ug/kg	99		80-120		
Batch number: E103171AA Sample number(s): 6138691-6138692									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	97	100	60-132	3	30
Batch number: E103201AA Sample number(s): 6138685,6138687,6138689-6138690									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	97	107	70-130	10	30
Batch number: Y103191AA Sample number(s): 6138691-6138692									
Acetone	6 U	6.	20	ug/l	148	145	49-234	2	30
Benzene	0.5 U	0.5	5	ug/l	99	99	79-120	0	30
Bromobenzene	1 U	1.	5	ug/l	107	108	80-120	1	30
Bromochloromethane	1 U	1.	5	ug/l	97	98	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	93	92	80-120	1	30
Bromoform	1 U	1.	5	ug/l	101	101	61-120	0	30
Bromomethane	1 U	1.	5	ug/l	106	102	44-120	3	30
2-Butanone	3 U	3.	10	ug/l	105	106	66-151	1	30
n-Butylbenzene	1 U	1.	5	ug/l	104	103	74-120	0	30
sec-Butylbenzene	1 U	1.	5	ug/l	108	109	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	100	104	80-120	4	30
Carbon Tetrachloride	1 U	1.	5	ug/l	96	94	75-123	2	30
Chlorobenzene	0.8 U	0.8	5	ug/l	98	97	80-120	1	30
Chloroethane	1 U	1.	5	ug/l	97	92	49-129	5	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	108	111	56-129	3	30
Chloroform	0.8 U	0.8	5	ug/l	100	99	77-122	2	30
Chloromethane	1 U	1.	5	ug/l	85	87	60-129	2	30
2-Chlorotoluene	1 U	1.	5	ug/l	105	105	80-120	1	30
4-Chlorotoluene	1 U	1.	5	ug/l	102	102	80-120	0	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	132	127	38-136	3	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	112	115	66-120	3	30
Dibromochloromethane	1 U	1.	5	ug/l	92	93	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	102	103	80-120	1	30
Dibromomethane	1 U	1.	5	ug/l	98	100	80-120	1	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	98	101	80-120	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	103	104	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	101	102	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	68	69	47-120	2	30
1,1-Dichloroethane	1 U	1.	5	ug/l	101	101	79-120	0	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dichloroethane	1 U	1.	5	ug/l	103	101	70-120	1	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	114	114	74-123	0	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	99	80-120	0	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	100	98	80-120	1	30
1,2-Dichloropropane	1 U	1.	5	ug/l	99	98	78-120	1	30
1,3-Dichloropropane	1 U	1.	5	ug/l	102	103	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	96	94	77-124	3	30
1,1-Dichloropropene	1 U	1.	5	ug/l	100	100	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	92	93	80-120	1	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	94	97	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	100	99	79-120	2	30
Freon 113	2 U	2.	10	ug/l	115	112	69-128	3	30
Freon 133a	2 U	2.	5	ug/l	98	95	77-120	3	30
Hexachlorobutadiene	2 U	2.	5	ug/l	96	97	58-120	1	30
2-Hexanone	3 U	3.	10	ug/l	107	108	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	98	98	77-120	0	30
p-Isopropyltoluene	1 U	1.	5	ug/l	107	106	80-120	0	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	98	100	76-120	2	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	104	104	70-121	0	30
Methylene Chloride	2 U	2.	5	ug/l	103	106	80-120	3	30
n-Propylbenzene	1 U	1.	5	ug/l	111	112	80-120	1	30
Styrene	1 U	1.	5	ug/l	110	110	80-120	0	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	96	96	80-120	1	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	109	112	71-120	3	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	96	97	80-121	1	30
Toluene	0.7 U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	102	104	65-120	2	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	99	101	67-120	2	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	100	99	75-127	1	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	102	101	80-120	2	30
Trichloroethene	1 U	1.	5	ug/l	98	96	80-120	2	30
Trichlorofluoromethane	2 U	2.	5	ug/l	109	105	64-129	3	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	110	114	80-120	4	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	108	109	74-120	1	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	106	106	75-120	0	30
Vinyl Chloride	1 U	1.	5	ug/l	81	82	65-125	1	30
m+p-Xylene	0.8 U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8 U	0.8	5	ug/l	94	94	80-120	0	30

Batch number: 10316WAP026

Sample number(s): 6138692

Acenaphthene	0.010 U	0.010	0.050	ug/l	101	101	74-109	1	30
Acenaphthylene	0.010 U	0.010	0.050	ug/l	99	100	70-110	1	30
Anthracene	0.010 U	0.010	0.050	ug/l	102	105	66-111	3	30
Benzo(a)anthracene	0.010 U	0.010	0.050	ug/l	106	106	72-114	1	30
Benzo(a)pyrene	0.010 U	0.010	0.050	ug/l	119*	120*	64-115	1	30
Benzo(b)fluoranthene	0.010 U	0.010	0.050	ug/l	138*	136*	69-123	2	30
Benzo(g,h,i)perylene	0.010 U	0.010	0.050	ug/l	111	110	68-125	0	30
Benzo(k)fluoranthene	0.010 U	0.010	0.050	ug/l	116	118	72-122	2	30
Butylbenzylphthalate	0.050 U	0.050	1.0	ug/l	91	96	70-130	5	30
Di-n-butylphthalate	0.050 U	0.050	1.0	ug/l	108	110	70-130	1	30
Chrysene	0.010 U	0.010	0.050	ug/l	107	108	76-116	1	30
Dibenz(a,h)anthracene	0.010 U	0.010	0.050	ug/l	108	108	71-125	0	30
Diethylphthalate	0.050 U	0.050	1.0	ug/l	104	104	70-130	0	30
Dimethylphthalate	0.050 U	0.050	1.0	ug/l	90	92	70-130	2	30
Bis(2-Ethylhexyl)phthalate	0.050 U	0.050	1.0	ug/l	104	112	70-130	7	30
Fluoranthene	0.010 U	0.010	0.050	ug/l	104	106	75-116	2	30
Fluorene	0.010 U	0.010	0.050	ug/l	110	113	75-114	3	30
Indeno(1,2,3-cd)pyrene	0.010 U	0.010	0.050	ug/l	110	110	69-124	0	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	105	107	71-117	2	30
2-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	93	94	75-115	2	30
Naphthalene	0.010 U	0.010	0.050	ug/l	98	101	72-109	3	30
N-Nitrosodimethylamine	0.010 U	0.010	0.050	ug/l	60*	61*	70-130	1	30
Di-n-octylphthalate	0.050 U	0.050	1.0	ug/l	207*	130	70-130	45*	30
Phenanthrene	0.010 U	0.010	0.050	ug/l	103	104	76-111	2	30
Pyrene	0.010 U	0.010	0.050	ug/l	105	107	69-118	1	30

Batch number: 10319WAJ026

Sample number(s): 6138692

Aniline	1	U	1.	5	ug/l	67	73	49-101	8	30
Benzidine	20	U	20.	60	ug/l	55	60	20-109	8	30
Benzoic acid	6	U	6.	15	ug/l	35	46	10-69	27	30
Benzyl alcohol	5	U	5.	15	ug/l	91	91	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	107	103	82-117	4	30
Carbazole	1	U	1.	5	ug/l	102	101	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	99	94	70-123	6	30
4-Chloroaniline	1	U	1.	5	ug/l	47	52	42-124	11	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	98	95	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	89	93	77-108	4	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	85	88	62-127	4	30
2-Chloronaphthalene	2	U	2.	5	ug/l	90	93	54-132	4	30
2-Chlorophenol	1	U	1.	5	ug/l	97	95	77-108	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	98	100	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	99	99	83-108	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	90	92	67-108	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	85	91	63-110	6	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	89	90	65-113	1	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	62	64	49-111	4	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	105	101	80-109	3	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	101	98	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	100	100	70-130	0	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	94	91	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	82	82	64-120	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	98	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	101	101	85-115	0	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	106	101	78-116	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	103	102	81-118	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	99	96	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	54	53	10-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	88	84	52-113	5	30
Isophorone	1	U	1.	5	ug/l	97	95	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	93	92	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	87	89	61-103	3	30
2-Nitroaniline	1	U	1.	5	ug/l	101	99	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	93	93	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	72	75	59-100	4	30
Nitrobenzene	1	U	1.	5	ug/l	97	95	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	108	103	86-120	4	30
4-Nitrophenol	10	U	10.	30	ug/l	49	48	16-78	3	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	88	90	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	106	104	67-136	1	30
Pentachlorophenol	3	U	3.	15	ug/l	93	91	53-110	2	30
Phenol	1	U	1.	5	ug/l	52	50	29-67	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	97	95	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	103	100	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	105	106	81-113	1	30

Batch number: 10320SLE026

Sample number(s): 6138685-6138690

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Aniline	170 U	170.	500	ug/kg	67		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	34		15-121		
Benzoic acid	170 U	170.	500	ug/kg	84		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	84		68-111		
4-Bromophenyl-phenylether	17	U 17.	170	ug/kg	88		79-117		
Carbazole	17	U 17.	170	ug/kg	90		77-113		
4-Chloro-3-methylphenol	33	U 33.	170	ug/kg	88		74-119		
4-Chloroaniline	67	U 67.	170	ug/kg	53		10-110		
bis(2-Chloroethoxy)methane	17	U 17.	170	ug/kg	85		70-118		
bis(2-Chloroethyl)ether	17	U 17.	170	ug/kg	83		70-104		
bis(2-Chloroisopropyl)ether	17	U 17.	170	ug/kg	79		68-131		
2-Chloronaphthalene	17	U 17.	170	ug/kg	97		67-127		
2-Chlorophenol	17	U 17.	170	ug/kg	89		72-112		
4-Chlorophenyl-phenylether	33	U 33.	170	ug/kg	92		79-110		
Dibenzofuran	17	U 17.	170	ug/kg	90		79-108		
1,2-Dichlorobenzene	17	U 17.	170	ug/kg	81		79-102		
1,3-Dichlorobenzene	17	U 17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U 17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	70		38-105		
2,4-Dichlorophenol	17	U 17.	170	ug/kg	90		75-111		
2,4-Dimethylphenol	33	U 33.	170	ug/kg	89		72-111		
3,5-Dimethylphenol	33	U 33.	170	ug/kg	102		70-130		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	75		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	70		37-120		
2,4-Dinitrotoluene	33	U 33.	170	ug/kg	90		73-115		
2,6-Dinitrotoluene	17	U 17.	170	ug/kg	91		79-115		
1,2-Diphenylhydrazine	17	U 17.	170	ug/kg	93		77-111		
Hexachlorobenzene	17	U 17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U 67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	69		46-115		
Hexachloroethane	17	U 17.	170	ug/kg	79		68-105		
Isophorone	17	U 17.	170	ug/kg	83		69-110		
2-Methylphenol	33	U 33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U 33.	170	ug/kg	81		66-117		
2-Nitroaniline	17	U 17.	170	ug/kg	91		78-116		
3-Nitroaniline	33	U 33.	170	ug/kg	86		62-109		
4-Nitroaniline	67	U 67.	170	ug/kg	61		49-98		
Nitrobenzene	17	U 17.	170	ug/kg	87		71-104		
2-Nitrophenol	17	U 17.	170	ug/kg	84		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	78		56-118		
N-Nitroso-di-n-propylamine	17	U 17.	170	ug/kg	79		63-107		
N-Nitrosodiphenylamine	17	U 17.	170	ug/kg	94		67-141		
Pentachlorophenol	170 U	170.	500	ug/kg	87		35-106		
Phenol	17	U 17.	170	ug/kg	82		58-112		
1,2,4-Trichlorobenzene	17	U 17.	170	ug/kg	83		73-108		
2,4,5-Trichlorophenol	33	U 33.	170	ug/kg	89		76-107		
2,4,6-Trichlorophenol	33	U 33.	170	ug/kg	90		78-111		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCS D Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10321SLE026 Sample number(s): 6138685-6138690									
Acenaphthene	0.67 U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	97		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	113		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	124		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	113		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	128		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	101		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	113		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	102		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	110		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	109		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	104		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	107		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	100		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	111		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	98		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	86		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	124		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	104		56-121		
Batch number: 103200014A Sample number(s): 6138685-6138690									
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	62*	59*	75-125	6	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	78		72-120		
PCB-1221	0.50 U	0.50	1.7	ug/kg					
PCB-1232	0.52 U	0.52	1.7	ug/kg					
PCB-1242	0.50 U	0.50	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.33 U	0.33	1.7	ug/kg	86		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					
Batch number: 103200017A Sample number(s): 6138692									
Aroclor 5432	0.10 U	0.10	0.50	ug/l					
Aroclor 5442	0.10 U	0.10	0.50	ug/l	66*	74*	75-125	11	30
Aroclor 5460	0.10 U	0.10	0.50	ug/l					
PCB-1016	0.10 U	0.10	0.50	ug/l	100	108	68-119	8	30
PCB-1221	0.10 U	0.10	0.50	ug/l					
PCB-1232	0.20 U	0.20	0.50	ug/l					
PCB-1242	0.10 U	0.10	0.50	ug/l					
PCB-1248	0.10 U	0.10	0.50	ug/l					
PCB-1254	0.10 U	0.10	0.50	ug/l					
PCB-1260	0.10 U	0.10	0.50	ug/l	110	118	68-121	7	30
PCB-1262	0.20 U	0.20	0.50	ug/l					
PCB-1268	0.16 U	0.16	0.50	ug/l					
Batch number: 103161848002 Sample number(s): 6138692									
Aluminum	0.0834 U	0.0834	0.200	mg/l	108	105	90-112	3	20
Boron	0.0138 U	0.0138	0.0500	mg/l	94	95	90-110	0	20

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Calcium	0.0702 U	0.0702	0.200	mg/l	104	102	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	103	102	90-112	1	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	102	99	80-120	2	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	102	99	89-110	3	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	100	100	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	99	99	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	103	100	85-115	3	20
Sodium	0.433 U	0.433	1.00	mg/l	103	101	87-114	2	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	102	101	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	98	98	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	102	101	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	103	101	80-120	2	20

Batch number: 103166050002A	Sample number(s): 6138692
Antimony	0.00030 U 0.00030 0.0010 mg/l 103 97 87-110 6 20
Arsenic	0.00095 U 0.00095 0.0020 mg/l 103 99 86-111 4 20
Beryllium	0.00013 U 0.00013 0.00050 mg/l 104 105 90-112 1 20
Cadmium	0.00020 U 0.00020 0.00050 mg/l 103 104 90-114 0 20
Chromium	0.00060 U 0.00060 0.0020 mg/l 100 102 90-118 3 20
Cobalt	0.00010 U 0.00010 0.00050 mg/l 95 94 80-120 0 20
Copper	0.00038 U 0.00038 0.0020 mg/l 103 102 90-113 0 20
Lead	0.000052 U 0.00005 0.0010 mg/l 101 99 90-115 2 20
Nickel	0.00050 U 0.00050 0.0020 mg/l 103 103 90-113 0 20
Silver	0.000080 U 0.00008 0.00050 mg/l 104 104 90-115 0 20
Thallium	0.00015 U 0.00015 0.00050 mg/l 104 101 89-116 2 20
Vanadium	0.00016 U 0.00016 0.00050 mg/l 98 99 80-120 1 20
Zinc	0.0040 U 0.0040 0.0150 mg/l 101 103 80-120 3 20

Batch number: 103166050002B	Sample number(s): 6138692
Selenium	0.00025 U 0.00025 0.0020 mg/l 101 102 85-114 1 20

Batch number: 103166050002C	Sample number(s): 6138692
Molybdenum	0.00025 U 0.00025 0.00050 mg/l 103 100 80-120 3 20

Batch number: 103166050002D	Sample number(s): 6138692
Barium	0.00038 U 0.00038 0.0020 mg/l 101 104 88-113 3 20

Batch number: 103201026001A	Sample number(s): 6138685-6138690
Antimony	0.0890 J 0.0594 0.198 mg/kg 63 11-208
Arsenic	0.0594 U 0.0594 0.396 mg/kg 91 80-120
Beryllium	0.0158 U 0.0158 0.0990 mg/kg 94 82-118
Cadmium	0.0356 U 0.0356 0.0990 mg/kg 100 82-118
Chromium	0.119 U 0.119 0.396 mg/kg 98 80-120
Cobalt	0.0198 U 0.0198 0.0990 mg/kg 100 82-118
Copper	0.0664 J 0.0653 0.396 mg/kg 101 80-120
Lead	0.0120 J 0.0103 0.198 mg/kg 100 80-120
Nickel	0.0990 U 0.0990 0.396 mg/kg 98 80-120
Silver	0.0119 U 0.0119 0.0990 mg/kg 97 66-134
Thallium	0.0297 U 0.0297 0.0990 mg/kg 99 81-119
Zinc	0.554 U 0.554 2.97 mg/kg 97 78-122

Batch number: 103201026001B	Sample number(s): 6138685-6138690
Selenium	0.0396 U 0.0396 0.396 mg/kg 97 79-122

Batch number: 103201026001C	Sample number(s): 6138685-6138690
Molybdenum	0.0495 U 0.0495 0.0990 mg/kg 101 78-122

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 103201026001D Barium	Sample number(s): 6138685-6138690 0.107 U	0.107	0.396	mg/kg	98		79-121		
Batch number: 103205708001 Aluminum	Sample number(s): 6138685-6138690 8.61 J	4.98	19.8	mg/kg	88		61-110		
Boron	0.881 U	0.881	4.95	mg/kg	93		78-110		
Calcium	12.1 J	6.07	19.8	mg/kg	92		88-110		
Iron	4.66 U	4.66	19.8	mg/kg	82		61-110		
Lithium	0.42 J	0.22	2.0	mg/kg	97		80-120		
Magnesium	2.94 J	2.51	9.90	mg/kg	93		82-110		
Manganese	0.0772 U	0.0772	0.495	mg/kg	97		81-119		
Phosphorus	1.37 J	0.554	9.90	mg/kg	99		80-120		
Potassium	17.8 U	17.8	49.5	mg/kg	92		78-110		
Sodium	36.9 U	36.9	99.0	mg/kg	95		87-110		
Strontium	0.0614 U	0.0614	0.495	mg/kg	98		79-121		
Tin	0.990 U	0.990	9.90	mg/kg	92		90-114		
Zirconium	0.832 U	0.832	4.95	mg/kg	98		80-120		
Batch number: 103205711001 Mercury	Sample number(s): 6138685-6138690 0.0027 U	0.0027	0.0956	mg/kg	107		88-123		
Batch number: 103225713003 Mercury	Sample number(s): 6138692 0.000056 U	0.00005 6	0.00020	mg/l	88	92	80-120	4	20
Batch number: 103261026002A Vanadium	Sample number(s): 6138685-6138690 0.0220 U	0.0220	0.100	mg/kg	94		90-110		
Batch number: 103265708001 Titanium	Sample number(s): 6138685-6138690 0.362 U	0.362	0.952	mg/kg	89		80-120		
Batch number: 10316621301A Hexavalent Chromium (water)	Sample number(s): 6138692 5.0 U	5.0	10.0	ug/l	101	100	90-110	1	20
Batch number: 10321196903A Fluoride	Sample number(s): 6138692 0.080 U	0.080	0.10	mg/l	107	107	90-110	0	20
Batch number: 10322621701A Perchlorate	Sample number(s): 6138692 0.70 U	0.70	2.0	ug/l	99	102	84-115	2	20
Batch number: 10324243201A Hexavalent Chromium by IC	Sample number(s): 6138685-6138690 200 U	200.	1,000	ug/kg	91		80-120		
Batch number: 10327327202B Perchlorate in Soil	Sample number(s): 6138685-6138690 9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 10328328201A Fluoride by IC (solid)	Sample number(s): 6138685-6138690 800 U	800.	1,000	ug/kg	105		90-110		
Batch number: 10316039403A pH	Sample number(s): 6138685-6138690				101		95-105		
Batch number: 10316691401B Oxidation Reduction Potential	Sample number(s): 6138685-6138690				98		98-102		

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Group Number: 1220967

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10322162401B	Sample number(s): 6138685-6138690								
Moisture CDM					100		80-120		

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103191AA	Sample number(s): 6138685,6138687,6138689-6138690 UNSPK: P137487								
Acetone	95	98	15-210	1	30				
Benzene	108	104	55-143	6	30				
Bromobenzene	105	102	43-139	7	30				
Bromochloromethane	139*	139*	60-137	3	30				
Bromodichloromethane	98	95	53-136	6	30				
Bromoform	87	81	38-124	9	30				
Bromomethane	67	64	42-168	7	30				
2-Butanone	86	83	37-163	7	30				
n-Butylbenzene	104	96	30-146	11	30				
sec-Butylbenzene	110	103	33-157	10	30				
tert-Butylbenzene	103	97	41-152	9	30				
Carbon Tetrachloride	98	93	45-153	8	30				
Chlorobenzene	104	98	49-135	9	30				
Chloroethane	65	62	39-152	8	30				
2-Chloroethyl Vinyl Ether	89	89	32-139	3	30				
Chloroform	105	101	61-142	7	30				
Chloromethane	70	75	51-163	4	30				
2-Chlorotoluene	104	100	42-146	8	30				
4-Chlorotoluene	105	98	39-145	10	30				
Chlorotrifluoroethene	138*	136*	70-130	4	30				
1,2-Dibromo-3-chloropropane	78	75	30-139	8	30				
Dibromochloromethane	93	89	51-128	7	30				
1,2-Dibromoethane	96	92	54-129	7	30				
Dibromomethane	101	98	57-130	6	30				
1,2-Dichlorobenzene	102	96	36-133	9	30				
1,3-Dichlorobenzene	103	98	34-134	9	30				
1,4-Dichlorobenzene	103	97	35-136	9	30				
Dichlorodifluoromethane	55	55	26-151	4	30				
1,1-Dichloroethane	102	100	63-142	5	30				
1,2-Dichloroethane	95	92	68-131	6	30				
1,1-Dichloroethene	107	103	61-149	6	30				
cis-1,2-Dichloroethene	106	103	60-136	6	30				
trans-1,2-Dichloroethene	99	95	59-142	6	30				
1,2-Dichloropropane	101	99	62-135	6	30				
1,3-Dichloropropane	97	94	58-129	6	30				
2,2-Dichloropropane	85	82	53-147	6	30				
1,1-Dichloropropene	106	103	54-145	6	30				
cis-1,3-Dichloropropene	94	91	51-131	6	30				
trans-1,3-Dichloropropene	82	80	49-129	6	30				
Ethylbenzene	104	98	44-141	8	30				
Freon 113	118	113	56-156	7	30				
Freon 133a	96	95	70-130	4	30				
Hexachlorobutadiene	110	98	10-155	14	30				

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Quality Control Summary

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 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2-Hexanone	81	79	32-160	5	30				
Isopropylbenzene	104	96	38-144	10	30				
p-Isopropyltoluene	107	99	29-152	10	30				
Methyl Tertiary Butyl Ether	87	85	55-129	5	30				
4-Methyl-2-pentanone	85	81	46-139	7	30				
Methylene Chloride	94	95	61-141	1	30				
n-Propylbenzene	109	103	39-157	9	30				
Styrene	100	95	35-134	8	30				
1,1,1,2-Tetrachloroethane	94	90	52-130	8	30				
1,1,2,2-Tetrachloroethane	94	92	40-152	6	30				
Tetrachloroethene	105	101	42-149	7	30				
Toluene	103	98	50-146	7	30				
1,2,3-Trichlorobenzene	97	92	10-140	9	30				
1,2,4-Trichlorobenzene	97	90	10-136	11	30				
1,1,1-Trichloroethane	97	94	64-142	6	30				
1,1,2-Trichloroethane	96	92	54-139	7	30				
Trichloroethene	107	103	53-144	7	30				
Trichlorofluoromethane	91	90	47-163	5	30				
1,2,3-Trichloropropane	95	91	45-154	7	30				
1,2,4-Trimethylbenzene	104	99	37-149	8	30				
1,3,5-Trimethylbenzene	105	98	38-150	10	30				
Vinyl Chloride	76	76	50-154	3	30				
m+p-Xylene	102	96	44-137	9	30				
o-Xylene	99	94	42-137	8	30				
Batch number: E103171AA	Sample number(s): 6138691-6138692 UNSPK: P138554								
1,4-Dioxane	87		50-150						
Batch number: E103201AA	Sample number(s): 6138685,6138687,6138689-6138690 UNSPK: P137487								
1,4-Dioxane	93	91	70-130	3	30				
Batch number: 10320SLE026	Sample number(s): 6138685-6138690 UNSPK: P137487								
Aniline	69	72	14-114	3	30				
Benzidine	44	49	35-141	9	30				
Benzoic acid	64	60	10-173	7	30				
Benzyl alcohol	85	86	55-123	1	30				
4-Bromophenyl-phenylether	91	94	67-129	3	30				
Carbazole	94	94	64-120	0	30				
4-Chloro-3-methylphenol	90	89	53-130	1	30				
4-Chloroaniline	65	70	23-95	7	30				
bis(2-Chloroethoxy)methane	88	88	54-117	0	30				
bis(2-Chloroethyl)ether	84	85	60-116	1	30				
bis(2-Chloroisopropyl)ether	82	82	55-142	0	30				
2-Chloronaphthalene	101	103	50-141	2	30				
2-Chlorophenol	87	90	73-121	3	30				
4-Chlorophenyl-phenylether	96	92	64-119	4	30				
Dibenzofuran	93	92	71-112	1	30				
1,2-Dichlorobenzene	81	80	66-108	1	30				
1,3-Dichlorobenzene	79	78	63-109	1	30				
1,4-Dichlorobenzene	84	81	53-113	3	30				
3,3'-Dichlorobenzidine	72	77	25-123	7	30				
2,4-Dichlorophenol	91	91	78-117	0	30				
2,4-Dimethylphenol	94	93	56-130	1	30				

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Quality Control Summary

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 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
3,5-Dimethylphenol	105	108	70-130	3	30				
4,6-Dinitro-2-methylphenol	79	90	10-148	13	30				
2,4-Dinitrophenol	54	70	20-143	24	30				
2,4-Dinitrotoluene	93	91	57-114	2	30				
2,6-Dinitrotoluene	93	91	69-123	2	30				
1,2-Diphenylhydrazine	95	96	71-129	1	30				
Hexachlorobenzene	94	95	61-111	1	30				
Hexachlorobutadiene	89	84	62-120	6	30				
Hexachlorocyclopentadiene	81	80	10-153	1	30				
Hexachloroethane	80	76	57-109	6	30				
Isophorone	85	86	51-118	0	30				
2-Methylphenol	84	87	47-142	4	30				
4-Methylphenol	83	86	55-126	3	30				
2-Nitroaniline	92	89	67-125	2	30				
3-Nitroaniline	89	87	59-122	3	30				
4-Nitroaniline	70	71	52-112	1	30				
Nitrobenzene	88	87	51-114	1	30				
2-Nitrophenol	87	89	74-115	3	30				
4-Nitrophenol	82	77	39-133	6	30				
N-Nitroso-di-n-propylamine	79	81	60-116	2	30				
N-Nitrosodiphenylamine	94	97	86-145	2	30				
Pentachlorophenol	92	90	17-149	1	30				
Phenol	83	86	58-126	3	30				
1,2,4-Trichlorobenzene	87	85	72-115	3	30				
2,4,5-Trichlorophenol	95	94	34-139	1	30				
2,4,6-Trichlorophenol	95	93	49-140	2	30				

Batch number: 10321SLE026	Sample number(s): 6138685-6138690 UNSPK: P137487								
Acenaphthene	92	91	63-105	0	30				
Acenaphthylene	89	90	55-126	2	30				
Anthracene	96	96	46-136	1	30				
Benzo(a)anthracene	101	101	39-144	0	30				
Benzo(a)pyrene	112	112	34-156	0	30				
Benzo(b)fluoranthene	127	116	43-155	9	30				
Benzo(g,h,i)perylene	106	104	33-141	2	30				
Benzo(k)fluoranthene	111	118	42-144	7	30				
Butylbenzylphthalate	117	110	73-140	6	30				
Di-n-butylphthalate	113	111	78-160	1	30				
Chrysene	103	100	29-156	3	30				
Dibenz(a,h)anthracene	107	105	41-130	2	30				
Diethylphthalate	107	105	87-131	1	30				
Dimethylphthalate	103	103	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	130	130	39-167	0	30				
Fluoranthene	99	98	26-166	2	30				
Fluorene	99	100	45-121	1	30				
Indeno(1,2,3-cd)pyrene	108	106	21-143	2	30				
1-Methylnaphthalene	98	98	72-123	0	30				
2-Methylnaphthalene	88	87	28-121	1	30				
Naphthalene	96	94	61-102	2	30				
N-Nitrosodimethylamine	87	87	48-113	0	30				
Di-n-octylphthalate	125	147	40-192	16	30				
Phenanthrene	99	96	12-165	3	30				
Pyrene	104	102	15-153	2	30				

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Group Number: 1220967

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: 103200014A	Sample number(s): 6138685-6138690 UNSPK: 6138685								
PCB-1016	91	77	29-146	16	50				
PCB-1260	95	86	39-149	9	50				
Batch number: 103201026001A	Sample number(s): 6138685-6138690 UNSPK: P137487 BKG: P137487								
Antimony	38*	36*	75-125	3	20	0.144 J	0.0907 J	46* (1)	20
Arsenic	260*	135*	75-125	29*	20	4.50	4.98	10	20
Beryllium	131*	74*	75-125	29*	20	0.730	0.709	3	20
Cadmium	108	96	75-125	10	20	0.0591 J	0.0350 U	200* (1)	20
Chromium	27*	26*	75-125	0	20	26.9	23.4	14	20
Cobalt	99	94	75-125	5	20	4.22	4.04	4	20
Copper	58*	66*	75-125	4	20	13.6	12.5	8	20
Lead	212*	152*	75-125	17	20	4.97	5.23	5	20
Nickel	86	40*	75-125	23*	20	13.5	11.9	13	20
Silver	117	109	75-125	7	20	0.0284 J	0.0271 J	5 (1)	20
Thallium	111	95	75-125	9	20	0.285	0.281	2 (1)	20
Zinc	95 (2)	-54 (2)	75-125	28*	20	49.2	45.0	9	20
Batch number: 103201026001B	Sample number(s): 6138685-6138690 UNSPK: P137487 BKG: P137487								
Selenium	93	88	75-125	6	20	0.0668 J	0.0561 J	17 (1)	20
Batch number: 103201026001C	Sample number(s): 6138685-6138690 UNSPK: P137487 BKG: P137487								
Molybdenum	107	102	75-125	4	20	0.405	0.240	51* (1)	20
Batch number: 103201026001D	Sample number(s): 6138685-6138690 UNSPK: P137487 BKG: P137487								
Barium	-28 (2)	-606 (2)	75-125	60*	20	125	73.9	51*	20
Batch number: 103205708001	Sample number(s): 6138685-6138690 UNSPK: P137487 BKG: P137487								
Aluminum	166 (2)	99 (2)	75-125	1	20	21,700	18,100	18	20
Boron	90	92	84-115	5	20	6.67	9.72	37* (1)	20
Calcium	-212 (2)	-156 (2)	75-125	7	20	3,730	3,010	22*	20
Iron	-1824 (2)	-3532 (2)	75-125	8	20	24,400	20,600	17	20
Lithium	94	93	82-114	1	20	22.5	18.9	17	20
Magnesium	3 (2)	-219 (2)	75-125	10	20	4,440	3,870	14	20
Manganese	175*	91	75-125	18	20	150	159	6	20
Phosphorus	106	107	75-125	2	20	137	156	13	20
Potassium	153*	128*	75-125	6	20	2,060	1,790	14	20
Sodium	72*	82	75-125	9	20	631	522	19	20
Strontium	85	84	75-115	2	20	35.0	35.3	1	20
Tin	82	83	80-110	5	20	2.35 J	2.20 J	7 (1)	20
Zirconium	93	95	75-125	4	20	3.07 J	4.18 J	31* (1)	20
Batch number: 103205711001	Sample number(s): 6138685-6138690 UNSPK: P137487 BKG: P137487								
Mercury	114	110	65-135	1	20	0.0082 J	0.0224 J	93* (1)	20
Batch number: 103261026002A	Sample number(s): 6138685-6138690 UNSPK: P137487 BKG: P137487								
Vanadium	124	111	75-125	3	20	35.4	38.8	9	20

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: 103265708001 Titanium	Sample number(s): 6138685-6138690 162 (2)	225 (2)	75-125	4	20	UNSPK: P137487 1,260	BKG: P137487 1,280	2	20
Batch number: 10324243201A Hexavalent Chromium by IC	Sample number(s): 6138685-6138690 87		75-125			UNSPK: P137487 200	BKG: P137487 U 360	J 200* (1)	20
Batch number: 10327327202B Perchlorate in Soil	Sample number(s): 6138685-6138690 125*		80-120			UNSPK: P137487 9.0	BKG: P137487 U 9.0	U 0 (1)	15
Batch number: 10328328201A Fluoride by IC (solid)	Sample number(s): 6138685-6138690 84		80-120			UNSPK: 6138685 6,100	BKG: 6138685 6,000	2	20
Batch number: 10316039403A pH	Sample number(s): 6138685-6138690					BKG: 6138690 6.92	6.91	0	1
Batch number: 10316691401B Oxidation Reduction Potential	Sample number(s): 6138685-6138690					BKG: 6138690 502	503	0	6
Batch number: 10322162401B Moisture CDM	Sample number(s): 6138685-6138690					BKG: 6138688 10.6	9.9	6	20

Surrogate Quality Control

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

 Analysis Name: VOCs in Soil 8260B
 Batch number: B103191AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6138685	104	107	95	94
6138687	104	108	95	94
6138689	103	99	98	92
6138690	102	100	98	94
Blank	102	103	96	94
LCS	103	107	97	96
MS	101	101	98	97
MSD	100	100	98	96
Limits:	80-120	80-120	81-117	74-121

 Analysis Name: 1,4-Dioxane by Isotope Dil SIM
 Batch number: E103171AA
 Toluene-d8

6138691	99
6138692	98
Blank	98
LCS	97
LCSD	97

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

Surrogate Quality Control

MS 100

Limits: 80-120

 Analysis Name: 1,4-Dioxane by Isotope DL SIM
 Batch number: E103201AA
 Toluene-d8

6138685	99
6138687	100
6138689	99
6138690	99
Blank	101
LCS	99
LCSD	100
MS	100
MSD	99

Limits: 70-130

 Analysis Name: VOCs in Water 8260B
 Batch number: Y103191AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6138691	97	96	101	100
6138692	97	96	100	98
Blank	97	96	101	99
LCS	97	101	103	102
LCSD	98	101	103	102

Limits: 86-118 80-120 88-110 86-115

Analysis Name: Selected SVOAs in water by SIM

Batch number: 10316WAP026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6138692	81	83	91
Blank	74	85	88
LCS	88	93	92
LCSD	89	95	93

Limits: 40-130 45-130 45-135

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 10319WAJ026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6138692	59	37	94	90	94	93
Blank	62	40	95	89	94	91
LCS	68	45	95	93	96	93
LCSD	68	45	95	92	97	92

Limits: 20-130 20-120 30-130 40-130 45-130 45-135

Analysis Name: TCL SW846 Semivolatiles Soil

Batch number: 10320SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6138692	59	37	94	90	94	93
Blank	62	40	95	89	94	91
LCS	68	45	95	93	96	93
LCSD	68	45	95	92	97	92

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

Surrogate Quality Control

6138685	81	84	55	78	82	84
6138686	74	75	62	75	78	85
6138687	69	71	68	72	76	75
6138688	75	80	79	76	81	84
6138689	77	81	79	79	83	81
6138690	75	79	74	77	82	81
Blank	78	83	83	82	85	78
LCS	81	84	89	80	84	81
MS	84	88	92	84	87	87
MSD	85	86	86	80	85	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

 Analysis Name: Selected SVOAs in soil by SIM
 Batch number: 10321SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6138685	74	79	87
6138686	45	50	56
6138687	71	76	83
6138688	72	75	79
6138689	77	80	85
6138690	70	77	83
Blank	78	83	88
LCS	82	85	88
MS	83	85	90
MSD	82	83	89
Limits:	40-130	45-130	45-135

 Analysis Name: PCBs & PCTs in Soil
 Batch number: 103200014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6138685	87	94
6138686	115	122*
6138687	124	121*
6138688	111	115
6138689	123	144*
6138690	147*	161*
Blank	174*	193*
LCS	82	93
LCSD	88	97
MS	106	105
MSD	81	94
Limits:	53-139	45-120

 Analysis Name: PCBs & PCTs in Water
 Batch number: 103200017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6138692	123	133*
Blank	117	114
LCS	109	115
LCSD	119	121*

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/06/10 at 04:32 PM

Group Number: 1220967

Surrogate Quality Control

Limits: 30-150 45-120

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

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

13013 1220967 6138685-92

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING																								Other Instructions and Notes				
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																												
Samplers: (Signature) <i>[Signature]</i>																												
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH g/mo/d EPA 8015B	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199 ^o	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015B		
SL-104-SA5C-SB-4.5	11.11.10	0920	soil	none	4 - Encore samplers	X	X																					
SL-104-SA5C-SB-4.0-5.0	11.11.10	0925	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-104-SA5C-SB-9.0-10.0	11.11.10	0930	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-100-SA5C-SB-4.5	11.11.10	1300	soil	none	4 - Encore samplers	X	X																					
SL-100-SA5C-SB-4.0-5.0	11.11.10	1305	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-100-SA5C-SB-8.5-9.5	11.11.10	1310	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-101-SA5C-SB-4.5	11.11.10	1040	soil	none	4 ^{1/2} Encore samplers	X	X																					
SL-101-SA5C-SB-4.0-5.0	11.11.10	1045	soil	none	16 oz jars			X		X	X	X	X	X	X													
SL-086-SA5C-SB-4.5	11.11.10	1515	soil	none	4 - Encore samplers	X	X																					
SL-086-SA5C-SB-4.0-5.0	11.11.10	1520	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
TB-111110	11.11.10	1500	water	HCl	3 - 40 ml VOA vials	X	X																					Trip blank
EB07-SA5C-111110	11.11.10	1130	water	HCl	3 - 40 ml VOA vials	X	X																					
Relinquished by: (Signature) <i>[Signature]</i>							Relinquished by: (Signature)							Received for Laboratory by: (Signature) <i>[Signature]</i>							Laboratory:							
Date/Time 11.11.10 1630							Date/Time							Date/Time							Lancaster Laboratories, Inc.							
Received by: (Signature) <i>Fed Ex Carrier</i>							Received by: (Signature)							Received by: (Signature)							Airbill No. 11/12/10 910							

Triplicate volume
wasn't received
for SL-101.
NLM 11/17/10

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>25\%$	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA <0.995

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 08, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/13/2010
Group Number: 1221175
SDG: DE015
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-096-SA5C-SB-4.0-5.0 Soil	6140325
SL-096-SA5C-SB-9.0-10.0 Soil	6140326
SL-097-SA5C-SB-4.0-5.0 Soil	6140327
SL-097-SA5C-SB-9.0-10.0 Soil	6140328
SL-088-SA5C-SB-4.0-5.0 Soil	6140329
SL-088-SA5C-SB-8.5-9.5 Soil	6140330
TB-111210 Water	6140331

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

ELECTRONIC CDM Federal Services Program
COPY TO
1 COPY TO Data Package Group

Attn: Todd Burgesser

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

Respectfully Submitted,



Robin C. Runkle
Senior Specialist

Sample Description: SL-096-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-096-SA5C-SB-4.0-5.0

LLI Sample # SW 6140325
 LLI Group # 1221175
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:50

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-4 SDG#: DE015-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8 U	6.8	8.1	0.91
06192	Benzene	71-43-2	0.10 U	0.10	4.1	0.91
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1	0.91
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1	0.91
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1	0.91
06192	Bromoform	75-25-2	0.41 U	0.41	4.1	0.91
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1	0.91
06192	2-Butanone	78-93-3	1.2 U	1.2	8.1	0.91
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1	0.91
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1	0.91
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.1	0.91
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1	0.91
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1	0.91
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1	0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1	0.91
06192	Chloroform	67-66-3	0.12 U	0.12	4.1	0.91
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1	0.91
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1	0.91
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1	0.91
06192	Chlorotrifluoroethene	79-38-9	0.51 U	0.51	5.1	0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71 U	0.71	4.1	0.91
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.1	0.91
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.1	0.91
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.1	0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1	0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1	0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.1	0.91
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1	0.91
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1	0.91
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.1	0.91
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1	0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.1	0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1	0.91
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.1	0.91
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1	0.91
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.1	0.91
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1	0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.1	0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.1	0.91
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1	0.91
06192	Freon 113	76-13-1	0.11 U	0.11	4.1	0.91
06192	Freon 133a	75-88-7	0.51 U	0.51	5.1	0.91
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1	0.91
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.1	0.91
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1	0.91
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1	0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.1	0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.1	0.91
06192	Methylene Chloride	75-09-2	0.24 U	0.24	4.1	0.91
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1	0.91

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

Sample Description: SL-096-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5C-SB-4.0-5.0

LLI Sample # SW 6140325
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:50

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-4 SDG#: DE015-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.10 U	0.10	4.1	0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1	0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.1	0.91
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.1	0.91
06192	Toluene	108-88-3	0.08 U	0.08	4.1	0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1	0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.1	0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.1	0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1	0.91
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.1	0.91
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1	0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1	0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1	0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1	0.91
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.1	0.91
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.1	0.91
06192	o-Xylene	95-47-6	0.17 U	0.17	4.1	0.91
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.9 U	4.9	15	22.01
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190	U 190	560	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U 190	560	1
04688	Benzyl alcohol	100-51-6	190	U 190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	190	1
04688	4-Chloroaniline	106-47-8	75	U 75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U 750	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1

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

Sample Description: SL-096-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-096-SA5C-SB-4.0-5.0

LLI Sample # SW 6140325
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:50

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-4 SDG#: DE015-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U 75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	37	U 37	190	1
04688	4-Methylphenol	106-44-5	37	U 37	190	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	37	U 37	190	1
04688	4-Nitroaniline	100-01-6	75	U 75	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U 0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U 0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U 0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U 0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U 0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U 0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Chrysene	218-01-9	0.43	J 0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U 0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20	1
10138	Fluoranthene	206-44-0	0.78	J 0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U 0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U 0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U 0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U 0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U 0.75	1.9	1

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

Sample Description: SL-096-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-096-SA5C-SB-4.0-5.0

LLI Sample # SW 6140325
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:50

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-4 SDG#: DE015-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	N-Nitrosodimethylamine	62-75-9	0.75 U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20	1
10138	Phenanthrene	85-01-8	0.77 J	0.75	1.9	1
10138	Pyrene	129-00-0	0.75 U	0.75	1.9	1

Perchlorate SW-846 6850 1/2007						
06557	Perchlorate in Soil	LC/MS/MS 14797-73-0	2.3 U	2.3	5.6	1

Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	3.9	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B						
01643	Aluminum	7429-90-5	26,200	5.57	22.1	1
07914	Boron	7440-42-8	7.24	0.986	5.54	1
01650	Calcium	7440-70-2	6,940	6.79	22.1	1
01654	Iron	7439-89-6	28,100	5.22	22.1	1
01656	Lithium	7439-93-2	27.8	0.24	2.2	1
01657	Magnesium	7439-95-4	5,650	2.81	11.1	1
06958	Manganese	7439-96-5	231	0.0864	0.554	1
10145	Phosphorus	7723-14-0	98.3	0.620	11.1	1
01662	Potassium	7440-09-7	1,570	19.9	55.4	1
01667	Sodium	7440-23-5	546	41.3	111	1
07968	Strontium	7440-24-6	47.7	0.0687	0.554	1
06969	Tin	7440-31-5	2.51 J	1.11	11.1	1
06970	Titanium	7440-32-6	1,090	0.817	2.15	2
10146	Zirconium	7440-67-7	3.90 J	0.930	5.54	1

SW-846 6020						
06124	Antimony	7440-36-0	0.106 J	0.0664	0.221	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.60	0.0664	0.443	2
06126	Barium	7440-39-3	131	0.120	0.443	2
06127	Beryllium	7440-41-7	1.16	0.0177	0.111	2
06128	Cadmium	7440-43-9	0.0733 J	0.0399	0.111	2

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



Analysis Report

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

Sample Description: SL-096-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-096-SA5C-SB-4.0-5.0

LLI Sample # SW 6140325
 LLI Group # 1221175
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:50

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-4 SDG#: DE015-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	32.2	0.133	0.443	2
06132	Cobalt	7440-48-4	9.99	0.0221	0.111	2
06133	Copper	7440-50-8	13.2	0.0731	0.443	2
06135	Lead	7439-92-1	8.35	0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.269	0.0554	0.111	2
06139	Nickel	7440-02-0	16.5	0.111	0.443	2
06141	Selenium	7782-49-2	0.0443 U	0.0443	0.443	2
06142	Silver	7440-22-4	0.0600 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.341	0.0332	0.111	2
06148	Vanadium	7440-62-2	38.9	0.0239	0.109	2
06149	Zinc	7440-66-6	56.9	0.620	3.32	2
SW-846 7471A						
			mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0107 J	0.0031	0.107	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	13,900	890	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.1 U	10.1	33.6	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	430 J	220	1,100	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	350	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.43	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	10.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-096-SA5C-SB-4.5.

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

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

Sample Description: SL-096-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-096-SA5C-SB-4.0-5.0

LLI Sample # SW 6140325
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:50

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-4 SDG#: DE015-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103204AA	11/17/2010 04:41	Holly Berry	0.91
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103201AA	11/16/2010 18:36	Jason M Long	22.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031722948	11/13/2010 16:31	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031722948	11/13/2010 16:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031722948	11/13/2010 16:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031722948	11/13/2010 16:32	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 16:43	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/01/2010 13:36	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
06557	Perchlorate in Soil LC/MS/MS	SW-846 6850 1/2007	1	103240013A	11/22/2010 16:01	Richard A Shober	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 07:58	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103240013A	11/22/2010 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	103265708001	11/24/2010 13:02	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:32	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 12:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010 12:48	Choon Y Tian	2

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

Sample Description: SL-096-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-096-SA5C-SB-4.0-5.0

LLI Sample # SW 6140325
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:50

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-4 SDG#: DE015-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 12:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010 22:34	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010 12:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010 20:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010 12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010 10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010 12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010 12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103205711001	11/16/2010 14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201A	11/24/2010 21:59	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201A	11/28/2010 10:35	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10335243201A	12/02/2010 08:07	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201A	11/24/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201A	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101A	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401A	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-096-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-096-SA5C-SB-9.0-10.0

LLI Sample # SW 6140326
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:55

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-9 SDG#: DE015-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	540	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U 180	540	1
04688	Benzyl alcohol	100-51-6	180	U 180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180	1
04688	Carbazole	86-74-8	18	U 18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180	1
04688	4-Chloroaniline	106-47-8	72	U 72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180	1
04688	2-Chlorophenol	95-57-8	18	U 18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180	1
04688	Dibenzofuran	132-64-9	18	U 18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U 720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J 18	360	1
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	36	U 36	180	1
04688	4-Methylphenol	106-44-5	36	U 36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	36	U 36	180	1
04688	4-Nitroaniline	100-01-6	72	U 72	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	180	U 180	540	1

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

Sample Description: SL-096-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5C-SB-9.0-10.0

LLI Sample # SW 6140326
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:55

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-9 SDG#: DE015-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U 0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U 0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U 0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U 0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U 0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	19	1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U 0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U 0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U 0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U 0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U 0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U 0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U 0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U 0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U 6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U 0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U 0.72	1.8	1
Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.6	1
10225	Aroclor 5460	11126-42-4	13	U 1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U 0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54	U 0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U 0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U 0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36	U 0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U 0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36	U 0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36	U 0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U 0.36	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	SW-846 6010B	mg/kg	mg/kg	mg/kg		
01643	Aluminum	7429-90-5	17,100	5.27	20.9	1

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

Sample Description: SL-096-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-096-SA5C-SB-9.0-10.0

LLI Sample # SW 6140326
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:55

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-9 SDG#: DE015-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	7.24	0.932	5.24	1
01650	Calcium	7440-70-2	3,000	6.42	20.9	1
01654	Iron	7439-89-6	21,400	4.93	20.9	1
01656	Lithium	7439-93-2	22.6	0.23	2.1	1
01657	Magnesium	7439-95-4	4,220	2.66	10.5	1
06958	Manganese	7439-96-5	276	0.0817	0.524	1
10145	Phosphorus	7723-14-0	223	0.587	10.5	1
01662	Potassium	7440-09-7	2,400	18.9	52.4	1
01667	Sodium	7440-23-5	444	39.1	105	1
07968	Strontium	7440-24-6	27.7	0.0649	0.524	1
06969	Tin	7440-31-5	2.25 J	1.05	10.5	1
06970	Titanium	7440-32-6	1,170	0.788	2.07	2
10146	Zirconium	7440-67-7	3.58 J	0.880	5.24	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.110 J	0.0635	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.68	0.0635	0.423	2
06126	Barium	7440-39-3	124	0.114	0.423	2
06127	Beryllium	7440-41-7	0.736	0.0169	0.106	2
06128	Cadmium	7440-43-9	0.157	0.0381	0.106	2
06131	Chromium	7440-47-3	28.4	0.127	0.423	2
06132	Cobalt	7440-48-4	9.03	0.0212	0.106	2
06133	Copper	7440-50-8	16.1	0.0698	0.423	2
06135	Lead	7439-92-1	9.15	0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.604	0.0529	0.106	2
06139	Nickel	7440-02-0	19.4	0.106	0.423	2
06141	Selenium	7782-49-2	0.0770 J	0.0423	0.423	2
06142	Silver	7440-22-4	0.0818 J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.339	0.0317	0.106	2
06148	Vanadium	7440-62-2	47.4	0.0237	0.108	2
06149	Zinc	7440-66-6	61.6	0.592	3.17	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0831 J	0.0031	0.108	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	3,600	860	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.7 U	9.7	32.4	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	360 J	220	1,100	1

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

Sample Description: SL-096-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-096-SA5C-SB-9.0-10.0

LLI Sample # SW 6140326
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:55

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-9 SDG#: DE015-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	386	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.34	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	7.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 17:09	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/01/2010 15:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 08:54	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1

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

Sample Description: SL-096-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-096-SA5C-SB-9.0-10.0

LLI Sample # SW 6140326
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 10:55

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S96-9 SDG#: DE015-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103265708001	11/23/2010 20:33	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:35	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 12:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010 22:36	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010 12:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010 20:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010 12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010 10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010 12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010 12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A	1	103205711001	11/16/2010 14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201A	11/24/2010 22:14	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201A	11/28/2010 11:47	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10335243201A	12/02/2010 08:21	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201A	11/24/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201A	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101A	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401A	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-097-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SB-4.0-5.0

LLI Sample # SW 6140327
 LLI Group # 1221175
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:05

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-4 SDG#: DE015-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2 U	6.2	7.4	0.85
06192	Benzene	71-43-2	0.09 U	0.09	3.7	0.85
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.7	0.85
06192	Bromochloromethane	74-97-5	0.31 U	0.31	3.7	0.85
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.7	0.85
06192	Bromoform	75-25-2	0.37 U	0.37	3.7	0.85
06192	Bromomethane	74-83-9	0.23 U	0.23	3.7	0.85
06192	2-Butanone	78-93-3	1.1 U	1.1	7.4	0.85
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.7	0.85
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.7	0.85
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.7	0.85
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.7	0.85
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.7	0.85
06192	Chloroethane	75-00-3	0.12 U	0.12	3.7	0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28 U	0.28	3.7	0.85
06192	Chloroform	67-66-3	0.11 U	0.11	3.7	0.85
06192	Chloromethane	74-87-3	0.31 U	0.31	3.7	0.85
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.7	0.85
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.7	0.85
06192	Chlorotrifluoroethene	79-38-9	0.46 U	0.46	4.6	0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65 U	0.65	3.7	0.85
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.7	0.85
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.7	0.85
06192	Dibromomethane	74-95-3	0.22 U	0.22	3.7	0.85
06192	1,2-Dichlorobenzene	95-50-1	0.08 U	0.08	3.7	0.85
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.7	0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.7	0.85
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.7	0.85
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.7	0.85
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.7	0.85
06192	1,1-Dichloroethene	75-35-4	0.36 U	0.36	3.7	0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.7	0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.7	0.85
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.7	0.85
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.7	0.85
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.7	0.85
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.7	0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.7	0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.7	0.85
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.7	0.85
06192	Freon 113	76-13-1	0.10 U	0.10	3.7	0.85
06192	Freon 133a	75-88-7	0.46 U	0.46	4.6	0.85
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.7	0.85
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.4	0.85
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.7	0.85
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.7	0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19 U	0.19	3.7	0.85
06192	4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	7.4	0.85
06192	Methylene Chloride	75-09-2	0.22 U	0.22	3.7	0.85
06192	n-Propylbenzene	103-65-1	0.06 U	0.06	3.7	0.85

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

Sample Description: SL-097-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SB-4.0-5.0

LLI Sample # SW 6140327
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:05

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-4 SDG#: DE015-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.09 U	0.09	3.7	0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10	3.7	0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21 U	0.21	3.7	0.85
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.7	0.85
06192	Toluene	108-88-3	0.11 J	0.07	3.7	0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.7	0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.7	0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.7	0.85
06192	1,1,2-Trichloroethane	79-00-5	0.25 U	0.25	3.7	0.85
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.7	0.85
06192	Trichlorofluoromethane	75-69-4	0.27 U	0.27	3.7	0.85
06192	1,2,3-Trichloropropane	96-18-4	0.31 U	0.31	3.7	0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.37 U	0.37	3.7	0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.7	0.85
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.7	0.85
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.7	0.85
06192	o-Xylene	95-47-6	0.16 U	0.16	3.7	0.85
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.5 U	5.5	16	25
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	180	U 180	550	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U 180	550	1
04688	Benzyl alcohol	100-51-6	180	U 180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180	1
04688	Carbazole	86-74-8	18	U 18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180	1
04688	4-Chloroaniline	106-47-8	73	U 73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180	1
04688	2-Chlorophenol	95-57-8	18	U 18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180	1
04688	Dibenzofuran	132-64-9	18	U 18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U 730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180	1

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

Sample Description: SL-097-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SB-4.0-5.0

LLI Sample # SW 6140327
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:05

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-4 SDG#: DE015-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J 18	360	1
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	36	U 36	180	1
04688	4-Methylphenol	106-44-5	36	U 36	180	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	36	U 36	180	1
04688	4-Nitroaniline	100-01-6	73	U 73	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	550	1
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180	1
Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatiles analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.						
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U 0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U 0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U 0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U 0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U 0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	20	1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	20	1
10138	Fluoranthene	206-44-0	0.73	U 0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U 0.73	1.8	1

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

Sample Description: SL-097-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SB-4.0-5.0

LLI Sample # SW 6140327
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:05

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-4 SDG#: DE015-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/kg	ug/kg	ug/kg	
10138	1-Methylnaphthalene	90-12-0	0.73 U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73 U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73 U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	20	1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8	1

Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B						
			mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,400	5.38	21.4	1
07914	Boron	7440-42-8	5.72	0.952	5.35	1
01650	Calcium	7440-70-2	12,100	6.55	21.4	1
01654	Iron	7439-89-6	19,700	5.04	21.4	1
01656	Lithium	7439-93-2	21.7	0.24	2.1	1
01657	Magnesium	7439-95-4	4,300	2.72	10.7	1
06958	Manganese	7439-96-5	107	0.0834	0.535	1
10145	Phosphorus	7723-14-0	111	0.599	10.7	1
01662	Potassium	7440-09-7	1,430	19.2	53.5	1
01667	Sodium	7440-23-5	430	39.9	107	1
07968	Strontium	7440-24-6	45.3	0.0663	0.535	1
06969	Tin	7440-31-5	2.18 J	1.07	10.7	1
06970	Titanium	7440-32-6	873	0.414	1.09	1
10146	Zirconium	7440-67-7	3.40 J	0.898	5.35	1

SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0768 J	0.0654	0.218	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.59	0.0654	0.436	2
06126	Barium	7440-39-3	138	0.118	0.436	2
06127	Beryllium	7440-41-7	0.842	0.0174	0.109	2
06128	Cadmium	7440-43-9	0.126	0.0393	0.109	2

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

Sample Description: SL-097-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SB-4.0-5.0

LLI Sample # SW 6140327
 LLI Group # 1221175
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:05

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-4 SDG#: DE015-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	28.2	0.131	0.436	2
06132	Cobalt	7440-48-4	5.95	0.0218	0.109	2
06133	Copper	7440-50-8	12.8	0.0720	0.436	2
06135	Lead	7439-92-1	7.87	0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.175	0.0545	0.109	2
06139	Nickel	7440-02-0	15.3	0.109	0.436	2
06141	Selenium	7782-49-2	0.0436 U	0.0436	0.436	2
06142	Silver	7440-22-4	0.0532 J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.374	0.0327	0.109	2
06148	Vanadium	7440-62-2	45.1	0.0233	0.106	2
06149	Zinc	7440-66-6	51.2	0.611	3.27	2
SW-846 7471A						
			mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0051 J	0.0030	0.105	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	14,500	870	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.8 U	9.8	32.7	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	230 J	220	1,100	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	377	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.24	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	8.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-097-SA5C-SB-4.5.

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

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

Sample Description: SL-097-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SB-4.0-5.0

LLI Sample # SW 6140327
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:05

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 Suite 210
 Chantilly VA 20151

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-4 SDG#: DE015-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103204AA	11/17/2010 05:04	Holly Berry	0.85
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103201AA	11/16/2010 18:56	Jason M Long	25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031722948	11/13/2010 16:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031722948	11/13/2010 16:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031722948	11/13/2010 16:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031722948	11/13/2010 16:36	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 17:35	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/01/2010 21:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 09:13	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
06970	Titanium	SW-846 6010B	1	103265708001	11/23/2010 20:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:39	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 12:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 12:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2

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

Sample Description: SL-097-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SB-4.0-5.0

LLI Sample # SW 6140327
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:05

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-4 SDG#: DE015-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010 22:38	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010 20:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010 12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010 10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010 12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010 12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103205711001	11/16/2010 14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201A	11/24/2010 22:29	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201A	11/28/2010 12:11	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10335243201A	12/02/2010 08:35	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201A	11/24/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201A	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101A	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401A	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-097-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SB-9.0-10.0

LLI Sample # SW 6140328
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:10

CDM Federal Programs Corp.

Submitted: 11/13/2010 09:25

14420 Albemarle Point Place

Reported: 12/08/2010 14:31

Suite 210

Chantilly VA 20151

S97-9 SDG#: DE015-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	560	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	560	1
04688	Benzyl alcohol	100-51-6	190	U 190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	75	U 75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U 750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J 19	380	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U 75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	75	U 75	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	560	1

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

Sample Description: SL-097-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SB-9.0-10.0

LLI Sample # SW 6140328
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:10

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-9 SDG#: DE015-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C						
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Acenaphthene	83-32-9	0.75	U 0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U 0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U 0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U 0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U 0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U 0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	20	1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U 0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U 0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U 0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U 0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U 0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U 0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U 0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U 0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U 6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U 0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U 0.75	1.9	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U 0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U 0.56	1.9	1
10225	PCB-1232	11141-16-5	0.59	U 0.59	1.9	1
10225	PCB-1242	53469-21-9	0.56	U 0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U 0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U 0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U 0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U 0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U 0.37	1.9	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	23,200	mg/kg 5.39	mg/kg 21.5	1

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

Sample Description: SL-097-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SB-9.0-10.0

LLI Sample # SW 6140328
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:10

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-9 SDG#: DE015-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	7.06	0.955	5.36	1
01650	Calcium	7440-70-2	3,900	6.57	21.5	1
01654	Iron	7439-89-6	21,700	5.05	21.5	1
01656	Lithium	7439-93-2	29.2	0.24	2.1	1
01657	Magnesium	7439-95-4	4,860	2.72	10.7	1
06958	Manganese	7439-96-5	167	0.0837	0.536	1
10145	Phosphorus	7723-14-0	208	0.601	10.7	1
01662	Potassium	7440-09-7	2,720	19.3	53.6	1
01667	Sodium	7440-23-5	390	40.0	107	1
07968	Strontium	7440-24-6	32.7	0.0665	0.536	1
06969	Tin	7440-31-5	2.50 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,180	0.815	2.15	2
10146	Zirconium	7440-67-7	3.69 J	0.901	5.36	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0960 J	0.0676	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.71	0.0676	0.450	2
06126	Barium	7440-39-3	101	0.122	0.450	2
06127	Beryllium	7440-41-7	0.894	0.0180	0.113	2
06128	Cadmium	7440-43-9	0.0891 J	0.0405	0.113	2
06131	Chromium	7440-47-3	29.7	0.135	0.450	2
06132	Cobalt	7440-48-4	8.10	0.0225	0.113	2
06133	Copper	7440-50-8	16.8	0.0743	0.450	2
06135	Lead	7439-92-1	8.69	0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.405	0.0563	0.113	2
06139	Nickel	7440-02-0	19.1	0.113	0.450	2
06141	Selenium	7782-49-2	0.0450 U	0.0450	0.450	2
06142	Silver	7440-22-4	0.0510 J	0.0135	0.113	2
06145	Thallium	7440-28-0	0.355	0.0338	0.113	2
06148	Vanadium	7440-62-2	45.6	0.0245	0.111	2
06149	Zinc	7440-66-6	66.7	0.631	3.38	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	5,700	900	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.1 U	10.1	33.8	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	280 J	230	1,100	1

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

Sample Description: SL-097-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SB-9.0-10.0

LLI Sample # SW 6140328
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:10

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-9 SDG#: DE015-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	386	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
00394	pH	n.a.	7.76	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	11.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 18:01	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/01/2010 21:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 09:31	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1

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

Sample Description: SL-097-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SB-9.0-10.0

LLI Sample # SW 6140328
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 09:10

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S97-9 SDG#: DE015-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103265708001	11/23/2010 20:40	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:42	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 12:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010 12:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 12:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010 22:40	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010 12:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010 20:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010 12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010 10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010 12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010 12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A	1	103205711001	11/16/2010 14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201A	11/24/2010 22:44	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201A	11/29/2010 11:05	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10335243201A	12/02/2010 08:49	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201A	11/24/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201A	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101A	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401A	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-088-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-4.0-5.0

LLI Sample # SW 6140329
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:20

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-4 SDG#: DE015-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.8	0.83
06192	Benzene	71-43-2	0.1 U	0.1	3.9	0.83
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9	0.83
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9	0.83
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9	0.83
06192	Bromoform	75-25-2	0.39 U	0.39	3.9	0.83
06192	Bromomethane	74-83-9	0.25 U	0.25	3.9	0.83
06192	2-Butanone	78-93-3	1.2 U	1.2	7.8	0.83
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9	0.83
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9	0.83
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9	0.83
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9	0.83
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9	0.83
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9	0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9	0.83
06192	Chloroform	67-66-3	0.12 U	0.12	3.9	0.83
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9	0.83
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9	0.83
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9	0.83
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9	0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68 U	0.68	3.9	0.83
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	3.9	0.83
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9	0.83
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9	0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9	0.83
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9	0.83
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9	0.83
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9	0.83
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9	0.83
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9	0.83
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9	0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	3.9	0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9	0.83
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9	0.83
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9	0.83
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9	0.83
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9	0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9	0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9	0.83
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9	0.83
06192	Freon 113	76-13-1	0.11 U	0.11	3.9	0.83
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9	0.83
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9	0.83
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.8	0.83
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9	0.83
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9	0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	3.9	0.83
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.8	0.83
06192	Methylene Chloride	75-09-2	0.23 U	0.23	3.9	0.83
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9	0.83

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

Sample Description: SL-088-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-4.0-5.0

LLI Sample # SW 6140329
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:20

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-4 SDG#: DE015-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1 ug/kg	3.9 ug/kg	0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11 ug/kg	3.9 ug/kg	0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23 ug/kg	3.9 ug/kg	0.83
06192	Tetrachloroethene	127-18-4	0.20 U	0.20 ug/kg	3.9 ug/kg	0.83
06192	Toluene	108-88-3	0.08 U	0.08 ug/kg	3.9 ug/kg	0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14 ug/kg	3.9 ug/kg	0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18 ug/kg	3.9 ug/kg	0.83
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20 ug/kg	3.9 ug/kg	0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26 ug/kg	3.9 ug/kg	0.83
06192	Trichloroethene	79-01-6	0.15 U	0.15 ug/kg	3.9 ug/kg	0.83
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28 ug/kg	3.9 ug/kg	0.83
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32 ug/kg	3.9 ug/kg	0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39 ug/kg	3.9 ug/kg	0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1 ug/kg	3.9 ug/kg	0.83
06192	Vinyl Chloride	75-01-4	0.20 U	0.20 ug/kg	3.9 ug/kg	0.83
06192	m+p-Xylene	179601-23-1	0.17 U	0.17 ug/kg	3.9 ug/kg	0.83
06192	o-Xylene	95-47-6	0.17 U	0.17 ug/kg	3.9 ug/kg	0.83
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.8 U	4.8 ug/kg	15 ug/kg	20.46
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	200 U	200 ug/kg	590 ug/kg	1
04688	Benzidine	92-87-5	1,400 U	1,400 ug/kg	3,900 ug/kg	1
04688	Benzoic acid	65-85-0	200 U	200 ug/kg	590 ug/kg	1
04688	Benzyl alcohol	100-51-6	200 U	200 ug/kg	590 ug/kg	1
04688	4-Bromophenyl-phenylether	101-55-3	20 U	20 ug/kg	200 ug/kg	1
04688	Carbazole	86-74-8	20 U	20 ug/kg	200 ug/kg	1
04688	4-Chloro-3-methylphenol	59-50-7	39 U	39 ug/kg	200 ug/kg	1
04688	4-Chloroaniline	106-47-8	79 U	79 ug/kg	200 ug/kg	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20 U	20 ug/kg	200 ug/kg	1
04688	bis(2-Chloroethyl)ether	111-44-4	20 U	20 ug/kg	200 ug/kg	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20 U	20 ug/kg	200 ug/kg	1
04688	2-Chloronaphthalene	91-58-7	20 U	20 ug/kg	200 ug/kg	1
04688	2-Chlorophenol	95-57-8	20 U	20 ug/kg	200 ug/kg	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39 U	39 ug/kg	200 ug/kg	1
04688	Dibenzofuran	132-64-9	20 U	20 ug/kg	200 ug/kg	1
04688	1,2-Dichlorobenzene	95-50-1	20 U	20 ug/kg	200 ug/kg	1
04688	1,3-Dichlorobenzene	541-73-1	20 U	20 ug/kg	200 ug/kg	1
04688	1,4-Dichlorobenzene	106-46-7	20 U	20 ug/kg	200 ug/kg	1
04688	3,3'-Dichlorobenzidine	91-94-1	120 U	120 ug/kg	390 ug/kg	1
04688	2,4-Dichlorophenol	120-83-2	20 U	20 ug/kg	200 ug/kg	1
04688	2,4-Dimethylphenol	105-67-9	39 U	39 ug/kg	200 ug/kg	1
04688	3,5-Dimethylphenol	108-68-9	39 U	39 ug/kg	200 ug/kg	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200 U	200 ug/kg	590 ug/kg	1
04688	2,4-Dinitrophenol	51-28-5	790 U	790 ug/kg	2,400 ug/kg	1
04688	2,4-Dinitrotoluene	121-14-2	39 U	39 ug/kg	200 ug/kg	1
04688	2,6-Dinitrotoluene	606-20-2	20 U	20 ug/kg	200 ug/kg	1
04688	1,2-Diphenylhydrazine	122-66-7	20 U	20 ug/kg	200 ug/kg	1

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

Sample Description: SL-088-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-4.0-5.0

LLI Sample # SW 6140329
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:20

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-4 SDG#: DE015-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	20	U 20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U 79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U 200	590	1
04688	Hexachloroethane	67-72-1	20	U 20	200	1
04688	Isophorone	78-59-1	20	U 20	200	1
04688	2-Methylphenol	95-48-7	39	U 39	200	1
04688	4-Methylphenol	106-44-5	39	U 39	200	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U 20	200	1
04688	3-Nitroaniline	99-09-2	39	U 39	200	1
04688	4-Nitroaniline	100-01-6	79	U 79	200	1
04688	Nitrobenzene	98-95-3	20	U 20	200	1
04688	2-Nitrophenol	88-75-5	20	U 20	200	1
04688	4-Nitrophenol	100-02-7	200	U 200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U 20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U 20	200	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U 200	590	1
04688	Phenol	108-95-2	20	U 20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U 20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U 39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U 39	200	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U 0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U 0.39	2.0	1
10138	Anthracene	120-12-7	1.0	J 0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	17	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	20	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	24	0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	11	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	13	0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U 7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U 7.1	21	1
10138	Chrysene	218-01-9	17	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	2.7	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U 7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U 7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U 7.1	21	1
10138	Fluoranthene	206-44-0	24	0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U 0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.8	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U 0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U 0.79	2.0	1
10138	Naphthalene	91-20-3	0.79	U 0.79	2.0	1

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

Sample Description: SL-088-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-4.0-5.0

LLI Sample # SW 6140329
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:20

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-4 SDG#: DE015-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	N-Nitrosodimethylamine	62-75-9	0.79 U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1 U	7.1	21	1
10138	Phenanthrene	85-01-8	3.1	0.79	2.0	1
10138	Pyrene	129-00-0	25	0.79	2.0	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2 U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39 U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.59 U	0.59	2.0	1
10225	PCB-1232	11141-16-5	0.62 U	0.62	2.0	1
10225	PCB-1242	53469-21-9	0.59 U	0.59	2.0	1
10225	PCB-1248	12672-29-6	0.39 U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39 U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.84 J	0.39	2.0	1
10225	PCB-1262	37324-23-5	0.39 U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39 U	0.39	2.0	1

The DCB surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,900	5.90	23.5	1
07914	Boron	7440-42-8	5.88	1.04	5.87	1
01650	Calcium	7440-70-2	2,910	7.19	23.5	1
01654	Iron	7439-89-6	21,100	5.53	23.5	1
01656	Lithium	7439-93-2	20.1	0.26	2.3	1
01657	Magnesium	7439-95-4	4,450	2.98	11.7	1
06958	Manganese	7439-96-5	179	0.0915	0.587	1
10145	Phosphorus	7723-14-0	186	0.657	11.7	1
01662	Potassium	7440-09-7	1,850	21.1	58.7	1
01667	Sodium	7440-23-5	196	43.8	117	1
07968	Strontium	7440-24-6	27.3	0.0727	0.587	1
06969	Tin	7440-31-5	2.45 J	1.17	11.7	1
06970	Titanium	7440-32-6	1,110	0.858	2.26	2
10146	Zirconium	7440-67-7	3.25 J	0.985	5.87	1
SW-846 6020						
06124	Antimony	7440-36-0	0.119 J	0.0711	0.237	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.60	0.0711	0.474	2
06126	Barium	7440-39-3	107	0.128	0.474	2
06127	Beryllium	7440-41-7	0.741	0.0190	0.118	2

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

Sample Description: SL-088-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-4.0-5.0

LLI Sample # SW 6140329
 LLI Group # 1221175
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:20

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-4 SDG#: DE015-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	0.0669 J	0.0427	0.118	2
06131	Chromium	7440-47-3	23.8	0.142	0.474	2
06132	Cobalt	7440-48-4	9.53	0.0237	0.118	2
06133	Copper	7440-50-8	10.9	0.0782	0.474	2
06135	Lead	7439-92-1	6.43	0.0123	0.237	2
06138	Molybdenum	7439-98-7	0.386	0.0592	0.118	2
06139	Nickel	7440-02-0	13.3	0.118	0.474	2
06141	Selenium	7782-49-2	0.0655 J	0.0474	0.474	2
06142	Silver	7440-22-4	0.0150 J	0.0142	0.118	2
06145	Thallium	7440-28-0	0.292	0.0355	0.118	2
06148	Vanadium	7440-62-2	44.5	0.0261	0.118	2
06149	Zinc	7440-66-6	51.2	0.664	3.55	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0034 U	0.0034	0.118	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	5,200	950	1,200	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.7 U	10.7	35.5	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	410 J	240	1,200	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	355	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.92	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	15.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

Sample Description: SL-088-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-4.0-5.0

LLI Sample # SW 6140329
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:20

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-4 SDG#: DE015-05

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-088-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103204AA	11/17/2010 05:26	Holly Berry	0.83
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103201AA	11/16/2010 19:15	Jason M Long	20.46
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201031722948	11/13/2010 16:39	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201031722948	11/13/2010 16:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201031722948	11/13/2010 16:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201031722948	11/13/2010 16:39	Christopher D Meeks	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 18:27	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/01/2010 22:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 09:50	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
06970	Titanium	SW-846 6010B	1	103265708001	11/23/2010 20:43	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:45	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 13:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 13:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 13:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 13:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 13:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 13:01	Choon Y Tian	2

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

Sample Description: SL-088-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-4.0-5.0

LLI Sample # SW 6140329
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:20

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-4 SDG#: DE015-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010	13:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010	13:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010	13:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103201026001C	11/19/2010	13:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010	13:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010	13:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010	13:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010	13:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010	22:42	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010	13:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010	20:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010	12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010	10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010	12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010	12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103205711001	11/16/2010	14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201B	11/24/2010	23:00	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201A	11/29/2010	11:29	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10335243201A	12/02/2010	09:10	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201B	11/24/2010	13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201A	11/26/2010	19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101A	11/16/2010	14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401A	11/16/2010	14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010	19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010	05:21	William C Schwebel	1

Sample Description: SL-088-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-8.5-9.5

LLI Sample # SW 6140330
 LLI Group # 1221175
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:25

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-8 SDG#: DE015-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580	1
04688	Benzidine	92-87-5	1,400	U 1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U 190	580	1
04688	Benzyl alcohol	100-51-6	190	U 190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	190	1
04688	4-Chloroaniline	106-47-8	78	U 78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580	1
04688	2,4-Dinitrophenol	51-28-5	780	U 780	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U 78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	39	U 39	190	1
04688	4-Methylphenol	106-44-5	39	U 39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	39	U 39	190	1
04688	4-Nitroaniline	100-01-6	78	U 78	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	580	1
04688	Phenol	108-95-2	19	U 19	190	1

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

Sample Description: SL-088-SA5C-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5C-SB-8.5-9.5

LLI Sample # SW 6140330
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:25

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-8 SDG#: DE015-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	SW-846 8270C		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U 39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U 39	190	1

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatiles analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U 0.78	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U 0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U 0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.78	U 0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.78	U 0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U 0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U 0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U 0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U 7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U 7.0	21	1
10138	Chrysene	218-01-9	0.39	U 0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U 0.78	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U 7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U 7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U 7.0	21	1
10138	Fluoranthene	206-44-0	0.78	U 0.78	1.9	1
10138	Fluorene	86-73-7	0.78	U 0.78	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U 0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U 0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U 0.78	1.9	1
10138	Naphthalene	91-20-3	0.78	U 0.78	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U 0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U 7.0	21	1
10138	Phenanthrene	85-01-8	0.78	U 0.78	1.9	1
10138	Pyrene	129-00-0	0.78	U 0.78	1.9	1

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg		
10225	Aroclor 5432	63496-31-1	1.2	U 1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U 1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U 1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U 0.39	2.0	1
10225	PCB-1221	11104-28-2	0.58	U 0.58	2.0	1
10225	PCB-1232	11141-16-5	0.61	U 0.61	2.0	1
10225	PCB-1242	53469-21-9	0.58	U 0.58	2.0	1
10225	PCB-1248	12672-29-6	0.39	U 0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U 0.39	2.0	1
10225	PCB-1260	11096-82-5	0.39	U 0.39	2.0	1
10225	PCB-1262	37324-23-5	0.39	U 0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U 0.39	2.0	1

The stated QC limits are advisory only until sufficient data points

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

Sample Description: SL-088-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-8.5-9.5

LLI Sample # SW 6140330
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:25

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-8 SDG#: DE015-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
can be obtained to calculate statistical limits.						
Metals SW-846 6010B			mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,300	5.59	22.2	1
07914	Boron	7440-42-8	6.25	0.989	5.56	1
01650	Calcium	7440-70-2	3,740	6.81	22.2	1
01654	Iron	7439-89-6	24,700	5.23	22.2	1
01656	Lithium	7439-93-2	22.8	0.24	2.2	1
01657	Magnesium	7439-95-4	4,400	2.82	11.1	1
06958	Manganese	7439-96-5	226	0.0867	0.556	1
10145	Phosphorus	7723-14-0	306	0.622	11.1	1
01662	Potassium	7440-09-7	1,700	20.0	55.6	1
01667	Sodium	7440-23-5	205	41.5	111	1
07968	Strontium	7440-24-6	34.1	0.0689	0.556	1
06969	Tin	7440-31-5	2.43 J	1.11	11.1	1
06970	Titanium	7440-32-6	1,060	0.853	2.24	2
10146	Zirconium	7440-67-7	2.81 J	0.933	5.56	1
SW-846 6020			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.117 J	0.0680	0.227	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.07	0.0680	0.453	2
06126	Barium	7440-39-3	67.3	0.122	0.453	2
06127	Beryllium	7440-41-7	0.586	0.0181	0.113	2
06128	Cadmium	7440-43-9	0.0408 U	0.0408	0.113	2
06131	Chromium	7440-47-3	20.1	0.136	0.453	2
06132	Cobalt	7440-48-4	11.9	0.0227	0.113	2
06133	Copper	7440-50-8	10.4	0.0748	0.453	2
06135	Lead	7439-92-1	6.75	0.0118	0.227	2
06138	Molybdenum	7439-98-7	0.215	0.0566	0.113	2
06139	Nickel	7440-02-0	9.89	0.113	0.453	2
06141	Selenium	7782-49-2	0.0453 U	0.0453	0.453	2
06142	Silver	7440-22-4	0.0136 U	0.0136	0.113	2
06145	Thallium	7440-28-0	0.278	0.0340	0.113	2
06148	Vanadium	7440-62-2	37.4	0.0257	0.117	2
06149	Zinc	7440-66-6	45.6	0.634	3.40	2
SW-846 7471A			mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0079 J	0.0032	0.110	1
Wet Chemistry EPA 300.0			ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	4,600	930	1,200	1
EPA 314.0			ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.5 U	10.5	35.0	1
SW-846 7199			ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	460 J	230	1,200	1

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

Sample Description: SL-088-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-8.5-9.5

LLI Sample # SW 6140330
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:25

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-8 SDG#: DE015-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	390	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.97	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	14.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10320SLE026	12/01/2010 18:52	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/01/2010 23:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10320SLE026	11/16/2010 23:30	Patricia L Foreman	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 10:08	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
07914	Boron	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
01654	Iron	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
06969	Tin	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1

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

Sample Description: SL-088-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SB-8.5-9.5

LLI Sample # SW 6140330
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 14:25

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88-8 SDG#: DE015-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103265708001	11/23/2010 20:46	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103205708001	11/20/2010 16:49	John P Hook	1
06124	Antimony	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103201026001D	11/19/2010 13:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	2	103201026001C	11/22/2010 08:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103201026001B	11/19/2010 13:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103261026002A	11/22/2010 22:44	David K Beck	2
06149	Zinc	SW-846 6020	1	103201026001A	11/19/2010 13:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	2	103205711001	11/16/2010 20:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103205708001	11/16/2010 12:14	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708001	11/22/2010 10:21	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103201026001	11/16/2010 12:37	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103261026002	11/22/2010 12:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A	1	103205711001	11/16/2010 14:27	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10328328201B	11/24/2010 23:45	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201A	11/29/2010 11:53	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10335243201A	12/02/2010 09:24	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10328328201B	11/24/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201A	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101A	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401A	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1

Sample Description: TB-111210 Water
 SSFL Area IV Collocated Soil Sampling
 TB-111210

LLI Sample # WW 6140331
 LLI Group # 1221175
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 13:00

CDM Federal Programs Corp.

Submitted: 11/13/2010 09:25

14420 Albemarle Point Place

Reported: 12/08/2010 14:31

Suite 210

Chantilly VA 20151

S88TB SDG#: DE015-07TB*

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

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

Sample Description: TB-111210 Water
 SSFL Area IV Collocated Soil Sampling
 TB-111210

LLI Sample # WW 6140331
LLI Group # 1221175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/12/2010 13:00

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

Submitted: 11/13/2010 09:25

Reported: 12/08/2010 14:31

S88TB SDG#: DE015-07TB*

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103191AA	11/15/2010 14:01	Nicholas R Rossi	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103231AA	11/19/2010 11:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y103191AA	11/15/2010 14:01	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E103231AA	11/19/2010 11:49	Jason M Long	1

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B103204AA	Sample number(s): 6140325,6140327,6140329								
Acetone	6.7 U	6.7	8.0	ug/kg	97	95	32-209	2	30
Benzene	0.10 U	0.10	4.0	ug/kg	100	99	80-120	1	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	96	96	79-120	0	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	139*	138*	79-124	0	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40 U	0.40	4.0	ug/kg	87	85	70-120	2	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	83	82	32-162	0	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	92	89	46-153	3	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	98	97	72-120	1	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	101	100	75-120	0	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	93	93	75-120	0	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	91	90	69-122	1	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	95	95	80-120	0	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	84	84	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	89	85	43-146	4	30
Chloroform	0.12 U	0.12	4.0	ug/kg	97	97	80-120	0	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	75	74	54-132	0	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	96	95	78-120	1	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	95	96	79-120	2	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	124	112	22-131	10	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	87	87	58-120	0	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	92	92	77-120	0	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	96	96	80-120	0	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	98	96	80-120	2	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	94	94	79-120	1	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	95	95	78-120	0	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	95	94	79-120	1	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	62	60	20-120	2	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	98	96	80-120	2	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	93	92	71-129	1	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	102	100	73-123	2	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	98	98	80-120	0	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	93	91	79-120	2	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	95	96	80-120	1	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	97	96	80-120	0	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	76	76	72-123	0	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	99	97	77-120	2	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	86	87	80-120	1	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	81	81	77-120	1	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	95	95	80-120	1	30
Freon 113	0.11 U	0.11	4.0	ug/kg	118	116	61-126	2	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	88	82	78-120	7	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	98	95	57-120	3	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	89	88	45-155	1	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	95	93	76-120	2	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	97	97	75-120	0	30

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	92	92	74-121	0	30
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	95	91	61-134	4	30
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	89	89	76-124	0	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	102	101	77-120	1	30
Styrene	0.10 U	0.10	4.0	ug/kg	91	91	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	89	89	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	99	99	71-123	0	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	94	93	77-120	1	30
Toluene	0.08 U	0.08	4.0	ug/kg	96	95	80-120	1	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	90	91	64-120	1	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	89	88	68-120	1	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	89	88	71-125	1	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	96	96	80-120	0	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	96	95	80-120	1	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	90	87	58-133	3	30
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	99	98	71-123	1	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	98	98	79-120	0	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	97	96	78-120	1	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	75	75	53-120	0	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	94	93	80-120	1	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	91	91	80-120	0	30
Batch number: E103201AA Sample number(s): 6140325,6140327,6140329									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	97	107	70-130	10	30
Batch number: E103231AA Sample number(s): 6140331									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	98		60-132		
Batch number: Y103191AA Sample number(s): 6140331									
Acetone	6 U	6.	20	ug/l	148	145	49-234	2	30
Benzene	0.5 U	0.5	5	ug/l	99	99	79-120	0	30
Bromobenzene	1 U	1.	5	ug/l	107	108	80-120	1	30
Bromochloromethane	1 U	1.	5	ug/l	97	98	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	93	92	80-120	1	30
Bromoform	1 U	1.	5	ug/l	101	101	61-120	0	30
Bromomethane	1 U	1.	5	ug/l	106	102	44-120	3	30
2-Butanone	3 U	3.	10	ug/l	105	106	66-151	1	30
n-Butylbenzene	1 U	1.	5	ug/l	104	103	74-120	0	30
sec-Butylbenzene	1 U	1.	5	ug/l	108	109	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	100	104	80-120	4	30
Carbon Tetrachloride	1 U	1.	5	ug/l	96	94	75-123	2	30
Chlorobenzene	0.8 U	0.8	5	ug/l	98	97	80-120	1	30
Chloroethane	1 U	1.	5	ug/l	97	92	49-129	5	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	108	111	56-129	3	30
Chloroform	0.8 U	0.8	5	ug/l	100	99	77-122	2	30
Chloromethane	1 U	1.	5	ug/l	85	87	60-129	2	30
2-Chlorotoluene	1 U	1.	5	ug/l	105	105	80-120	1	30
4-Chlorotoluene	1 U	1.	5	ug/l	102	102	80-120	0	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	132	127	38-136	3	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	112	115	66-120	3	30
Dibromochloromethane	1 U	1.	5	ug/l	92	93	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	102	103	80-120	1	30
Dibromomethane	1 U	1.	5	ug/l	98	100	80-120	1	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	98	101	80-120	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	103	104	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	101	102	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	68	69	47-120	2	30
1,1-Dichloroethane	1 U	1.	5	ug/l	101	101	79-120	0	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dichloroethane	1 U	1.	5	ug/l	103	101	70-130	1	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	114	114	74-123	0	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	99	80-120	0	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	100	98	80-120	1	30
1,2-Dichloropropane	1 U	1.	5	ug/l	99	98	78-120	1	30
1,3-Dichloropropane	1 U	1.	5	ug/l	102	103	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	96	94	77-124	3	30
1,1-Dichloropropene	1 U	1.	5	ug/l	100	100	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	92	93	80-120	1	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	94	97	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	100	99	79-120	2	30
Freon 113	2 U	2.	10	ug/l	115	112	69-128	3	30
Freon 133a	2 U	2.	5	ug/l	98	95	77-120	3	30
Hexachlorobutadiene	2 U	2.	5	ug/l	96	97	58-120	1	30
2-Hexanone	3 U	3.	10	ug/l	107	108	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	98	98	77-120	0	30
p-Isopropyltoluene	1 U	1.	5	ug/l	107	106	80-120	0	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	98	100	76-120	2	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	104	104	70-121	0	30
Methylene Chloride	2 U	2.	5	ug/l	103	106	80-120	3	30
n-Propylbenzene	1 U	1.	5	ug/l	111	112	80-120	1	30
Styrene	1 U	1.	5	ug/l	110	110	80-120	0	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	96	96	80-120	1	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	109	112	71-120	3	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	96	97	80-121	1	30
Toluene	0.7 U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	102	104	65-120	2	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	99	101	67-120	2	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	100	99	75-127	1	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	102	101	80-120	2	30
Trichloroethene	1 U	1.	5	ug/l	98	96	80-120	2	30
Trichlorofluoromethane	2 U	2.	5	ug/l	109	105	64-129	3	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	110	114	80-120	4	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	108	109	74-120	1	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	106	106	75-120	0	30
Vinyl Chloride	1 U	1.	5	ug/l	81	82	65-125	1	30
m+p-Xylene	0.8 U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8 U	0.8	5	ug/l	94	94	80-120	0	30

Batch number: 10320SLE026

Sample number(s): 6140325-6140330

Aniline	170 U	170.	500	ug/kg	67		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	34		15-121		
Benzoic acid	170 U	170.	500	ug/kg	84		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	84		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	88		79-117		
Carbazole	17 U	17.	170	ug/kg	90		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	88		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	53		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	85		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	83		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	79		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	97		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	89		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	92		79-110		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Dibenzofuran	17	U	17.	170	ug/kg	90	79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	81	79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81	70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82	74-106		
3,3'-Dichlorobenzidine	100		100.	330	ug/kg	70	38-105		
	U								
2,4-Dichlorophenol	17	U	17.	170	ug/kg	90	75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	89	72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	102	70-130		
4,6-Dinitro-2-methylphenol	170		170.	500	ug/kg	75	53-110		
	U								
2,4-Dinitrophenol	670		670.	2,000	ug/kg	70	37-120		
	U								
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	90	73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	91	79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	93	77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	93	75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	92	78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84	70-112		
Hexachlorocyclopentadiene	170		170.	500	ug/kg	69	46-115		
	U								
Hexachloroethane	17	U	17.	170	ug/kg	79	68-105		
Isophorone	17	U	17.	170	ug/kg	83	69-110		
2-Methylphenol	33	U	33.	170	ug/kg	84	66-110		
4-Methylphenol	33	U	33.	170	ug/kg	81	66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	91	78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	86	62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	61	49-98		
Nitrobenzene	17	U	17.	170	ug/kg	87	71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	84	81-114		
4-Nitrophenol	170		170.	500	ug/kg	78	56-118		
	U								
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	79	63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94	67-141		
Pentachlorophenol	170		170.	500	ug/kg	87	35-106		
	U								
Phenol	17	U	17.	170	ug/kg	82	58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	83	73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	89	76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90	78-111		
Batch number: 10322SLI026	Sample number(s): 6140325-6140330								
Acenaphthene	0.67	U	0.67	1.7	ug/kg	95	63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	88	60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96	55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102	74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	114	58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	124	63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	105	44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	123	66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	96	65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109	84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	102	79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	108	62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	105	68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102	70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	100	67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100	78-120		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Fluorene	0.67 U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	106		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	88		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	85		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	111		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	94		56-121		
Batch number: 103240013A Sample number(s): 6140325									
Perchlorate in Soil LC/MS/MS	2.1 U	2.1	5.0	ug/kg	98		70-130		
Batch number: 103230032A Sample number(s): 6140325-6140330									
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	68*	64*	75-125	6	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.50 U	0.50	1.7	ug/kg					
PCB-1232	0.52 U	0.52	1.7	ug/kg					
PCB-1242	0.50 U	0.50	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.33 U	0.33	1.7	ug/kg	100		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					
Batch number: 103201026001A Sample number(s): 6140325-6140330									
Antimony	0.0890 J	0.0594	0.198	mg/kg	63		11-208		
Arsenic	0.0594 U	0.0594	0.396	mg/kg	91		80-120		
Beryllium	0.0158 U	0.0158	0.0990	mg/kg	94		82-118		
Cadmium	0.0356 U	0.0356	0.0990	mg/kg	100		82-118		
Chromium	0.119 U	0.119	0.396	mg/kg	98		80-120		
Cobalt	0.0198 U	0.0198	0.0990	mg/kg	100		82-118		
Copper	0.0664 J	0.0653	0.396	mg/kg	101		80-120		
Lead	0.0120 J	0.0103	0.198	mg/kg	100		80-120		
Nickel	0.0990 U	0.0990	0.396	mg/kg	98		80-120		
Silver	0.0119 U	0.0119	0.0990	mg/kg	97		66-134		
Thallium	0.0297 U	0.0297	0.0990	mg/kg	99		81-119		
Zinc	0.554 U	0.554	2.97	mg/kg	97		78-122		
Batch number: 103201026001B Sample number(s): 6140325-6140330									
Selenium	0.0396 U	0.0396	0.396	mg/kg	97		79-122		
Batch number: 103201026001C Sample number(s): 6140325-6140330									
Molybdenum	0.0495 U	0.0495	0.0990	mg/kg	101		78-122		
Batch number: 103201026001D Sample number(s): 6140325-6140330									
Barium	0.107 U	0.107	0.396	mg/kg	98		79-121		
Batch number: 103205708001 Sample number(s): 6140325-6140330									
Aluminum	8.61 J	4.98	19.8	mg/kg	88		61-110		
Boron	0.881 U	0.881	4.95	mg/kg	93		78-110		
Calcium	12.1 J	6.07	19.8	mg/kg	92		88-110		
Iron	4.66 U	4.66	19.8	mg/kg	82		61-110		
Lithium	0.42 J	0.22	2.0	mg/kg	97		80-120		
Magnesium	2.94 J	2.51	9.90	mg/kg	93		82-110		
Manganese	0.0772 U	0.0772	0.495	mg/kg	97		81-119		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Phosphorus	1.37 J	0.554	9.90	mg/kg	99		80-120		
Potassium	17.8 U	17.8	49.5	mg/kg	92		78-110		
Sodium	36.9 U	36.9	99.0	mg/kg	95		87-110		
Strontium	0.0614 U	0.0614	0.495	mg/kg	98		79-121		
Tin	0.990 U	0.990	9.90	mg/kg	92		90-114		
Zirconium	0.832 U	0.832	4.95	mg/kg	98		80-120		
Batch number: 103205711001	Sample number(s): 6140325-6140330								
Mercury	0.0027 U	0.0027	0.0956	mg/kg	107		88-123		
Batch number: 103261026002A	Sample number(s): 6140325-6140330								
Vanadium	0.0220 U	0.0220	0.100	mg/kg	94		90-110		
Batch number: 103265708001	Sample number(s): 6140325-6140330								
Titanium	0.362 U	0.362	0.952	mg/kg	89		80-120		
Batch number: 10328328201A	Sample number(s): 6140325-6140328								
Fluoride by IC (solid)	800 U	800.	1,000	ug/kg	105		90-110		
Batch number: 10328328201B	Sample number(s): 6140329-6140330								
Fluoride by IC (solid)	800 U	800.	1,000	ug/kg	105		90-110		
Batch number: 10330330201A	Sample number(s): 6140325-6140330								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	115		85-115		
Batch number: 10335243201A	Sample number(s): 6140325-6140330								
Hexavalent Chromium by IC	200 U	200.	1,000	ug/kg	97		80-120		
Batch number: 10320039401A	Sample number(s): 6140325-6140330								
pH					99		95-105		
Batch number: 10320182101A	Sample number(s): 6140325-6140330								
Oxidation Reduction Potential					98		98-102		
Batch number: 10327162401A	Sample number(s): 6140325-6140330								
Moisture CDM					100		80-120		

Sample Matrix Quality Control

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

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103204AA	Sample number(s): 6140325,6140327,6140329 UNSPK: 6140325								
Acetone	88		15-210						
Benzene	103		55-143						
Bromobenzene	99		43-139						
Bromochloromethane	130		60-137						
Bromodichloromethane	93		53-136						
Bromoform	80		38-124						

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Quality Control Summary

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 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Bromomethane	71		42-168						
2-Butanone	76		37-163						
n-Butylbenzene	105		30-146						
sec-Butylbenzene	110		33-157						
tert-Butylbenzene	100		41-152						
Carbon Tetrachloride	94		45-153						
Chlorobenzene	99		49-135						
Chloroethane	71		39-152						
2-Chloroethyl Vinyl Ether	76		32-139						
Chloroform	100		61-142						
Chloromethane	67		51-163						
2-Chlorotoluene	101		42-146						
4-Chlorotoluene	101		39-145						
1,2-Dibromo-3-chloropropane	72		30-139						
Dibromochloromethane	89		51-128						
1,2-Dibromoethane	90		54-129						
Dibromomethane	93		57-130						
1,2-Dichlorobenzene	96		36-133						
1,3-Dichlorobenzene	99		34-134						
1,4-Dichlorobenzene	99		35-136						
Dichlorodifluoromethane	45		26-151						
1,1-Dichloroethane	99		63-142						
1,2-Dichloroethane	90		68-131						
1,1-Dichloroethene	103		61-149						
cis-1,2-Dichloroethene	99		60-136						
trans-1,2-Dichloroethene	89		59-142						
1,2-Dichloropropane	97		62-135						
1,3-Dichloropropane	94		58-129						
2,2-Dichloropropane	78		53-147						
1,1-Dichloropropene	102		54-145						
cis-1,3-Dichloropropene	87		51-131						
trans-1,3-Dichloropropene	79		49-129						
Ethylbenzene	101		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	99		10-155						
2-Hexanone	70		32-160						
Isopropylbenzene	100		38-144						
p-Isopropyltoluene	105		29-152						
Methyl Tertiary Butyl Ether	77		55-129						
4-Methyl-2-pentanone	73		46-139						
Methylene Chloride	92		61-141						
n-Propylbenzene	113		39-157						
Styrene	95		35-134						
1,1,1,2-Tetrachloroethane	91		52-130						
1,1,2,2-Tetrachloroethane	90		40-152						
Tetrachloroethene	103		42-149						
Toluene	101		50-146						
1,2,3-Trichlorobenzene	85		10-140						
1,2,4-Trichlorobenzene	87		10-136						
1,1,1-Trichloroethane	92		64-142						
1,1,2-Trichloroethane	91		54-139						
Trichloroethene	100		53-144						
Trichlorofluoromethane	89		47-163						

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

Sample Matrix Quality Control

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

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,2,3-Trichloropropane	88		45-154						
1,2,4-Trimethylbenzene	104		37-149						
1,3,5-Trimethylbenzene	103		38-150						
Vinyl Chloride	70		50-154						
m+p-Xylene	98		44-137						
o-Xylene	94		42-137						
Batch number: E103201AA	Sample number(s): 6140325,6140327,6140329 UNSPK: P137487								
1,4-Dioxane	93	91	70-130	3	30				
Batch number: E103231AA	Sample number(s): 6140331 UNSPK: P144810								
1,4-Dioxane	104 (2)	149 (2)	50-150	8	30				
Batch number: 10320SLE026	Sample number(s): 6140325-6140330 UNSPK: P137487								
Aniline	69	72	14-114	3	30				
Benzidine	44	49	35-141	9	30				
Benzoic acid	64	60	10-173	7	30				
Benzyl alcohol	85	86	55-123	1	30				
4-Bromophenyl-phenylether	91	94	67-129	3	30				
Carbazole	94	94	64-120	0	30				
4-Chloro-3-methylphenol	90	89	53-130	1	30				
4-Chloroaniline	65	70	23-95	7	30				
bis(2-Chloroethoxy)methane	88	88	54-117	0	30				
bis(2-Chloroethyl)ether	84	85	60-116	1	30				
bis(2-Chloroisopropyl)ether	82	82	55-142	0	30				
2-Chloronaphthalene	101	103	50-141	2	30				
2-Chlorophenol	87	90	73-121	3	30				
4-Chlorophenyl-phenylether	96	92	64-119	4	30				
Dibenzofuran	93	92	71-112	1	30				
1,2-Dichlorobenzene	81	80	66-108	1	30				
1,3-Dichlorobenzene	79	78	63-109	1	30				
1,4-Dichlorobenzene	84	81	53-113	3	30				
3,3'-Dichlorobenzidine	72	77	25-123	7	30				
2,4-Dichlorophenol	91	91	78-117	0	30				
2,4-Dimethylphenol	94	93	56-130	1	30				
3,5-Dimethylphenol	105	108	70-130	3	30				
4,6-Dinitro-2-methylphenol	79	90	10-148	13	30				
2,4-Dinitrophenol	54	70	20-143	24	30				
2,4-Dinitrotoluene	93	91	57-114	2	30				
2,6-Dinitrotoluene	93	91	69-123	2	30				
1,2-Diphenylhydrazine	95	96	71-129	1	30				
bis(2-Ethylhexyl)phthalate	99	98	63-122	1	30				
Hexachlorobenzene	94	95	61-111	1	30				
Hexachlorobutadiene	89	84	62-120	6	30				
Hexachlorocyclopentadiene	81	80	10-153	1	30				
Hexachloroethane	80	76	57-109	6	30				
Isophorone	85	86	51-118	0	30				
2-Methylphenol	84	87	47-142	4	30				
4-Methylphenol	83	86	55-126	3	30				
2-Nitroaniline	92	89	67-125	2	30				
3-Nitroaniline	89	87	59-122	3	30				
4-Nitroaniline	70	71	52-112	1	30				
Nitrobenzene	88	87	51-114	1	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2-Nitrophenol	87	89	74-115	3	30				
4-Nitrophenol	82	77	39-133	6	30				
N-Nitroso-di-n-propylamine	79	81	60-116	2	30				
N-Nitrosodiphenylamine	94	97	86-145	2	30				
Pentachlorophenol	92	90	17-149	1	30				
Phenol	83	86	58-126	3	30				
1,2,4-Trichlorobenzene	87	85	72-115	3	30				
2,4,5-Trichlorophenol	95	94	34-139	1	30				
2,4,6-Trichlorophenol	95	93	49-140	2	30				
Batch number: 10322SLI026 Sample number(s): 6140325-6140330 UNSPK: 6140325									
Acenaphthene	93	89	63-105	4	30				
Acenaphthylene	83	82	55-126	1	30				
Anthracene	89	89	46-136	0	30				
Benzo(a)anthracene	92	92	39-144	0	30				
Benzo(a)pyrene	104	103	34-156	0	30				
Benzo(b)fluoranthene	112	109	43-155	3	30				
Benzo(g,h,i)perylene	73	73	33-141	1	30				
Benzo(k)fluoranthene	114	116	42-144	2	30				
Butylbenzylphthalate	88	90	73-140	2	30				
Di-n-butylphthalate	100	103	78-160	3	30				
Chrysene	91	91	29-156	0	30				
Dibenz(a,h)anthracene	76	80	41-130	4	30				
Diethylphthalate	96	98	87-131	1	30				
Dimethylphthalate	96	95	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	99	99	39-167	1	30				
Fluoranthene	88	89	26-166	1	30				
Fluorene	96	96	45-121	1	30				
Indeno(1,2,3-cd)pyrene	80	75	21-143	7	30				
1-Methylnaphthalene	89	87	72-123	3	30				
2-Methylnaphthalene	80	78	28-121	3	30				
Naphthalene	86	81	61-102	6	30				
N-Nitrosodimethylamine	85	83	48-113	2	30				
Di-n-octylphthalate	109	111	40-192	1	30				
Phenanthrene	87	88	12-165	1	30				
Pyrene	86	85	15-153	1	30				
Batch number: 103240013A Sample number(s): 6140325 UNSPK: P137485									
Perchlorate in Soil LC/MS/MS	99	98	70-130	1	30				
Batch number: 103230032A Sample number(s): 6140325-6140330 UNSPK: 6140325									
PCB-1016	83	81	29-146	3	50				
PCB-1260	90	86	39-149	4	50				
Batch number: 103201026001A Sample number(s): 6140325-6140330 UNSPK: P137487 BKG: P137487									
Antimony	38*	36*	75-125	3	20	0.144 J	0.0907 J	46* (1)	20
Arsenic	260*	135*	75-125	29*	20	4.50	4.98	10	20
Beryllium	131*	74*	75-125	29*	20	0.730	0.709	3	20
Cadmium	108	96	75-125	10	20	0.0591 J	0.0350 U	200* (1)	20
Chromium	27*	26*	75-125	0	20	26.9	23.4	14	20
Cobalt	99	94	75-125	5	20	4.22	4.04	4	20
Copper	58*	66*	75-125	4	20	13.6	12.5	8	20
Lead	212*	152*	75-125	17	20	4.97	5.23	5	20

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Nickel	86	40*	75-125	23*	20	13.5	11.9	13	20
Silver	117	109	75-125	7	20	0.0284 J	0.0271 J	5 (1)	20
Thallium	111	95	75-125	9	20	0.285	0.281	2 (1)	20
Zinc	95 (2)	-54 (2)	75-125	28*	20	49.2	45.0	9	20
Batch number: 103201026001B	Sample number(s): 6140325-6140330 UNSPK: P137487 BKG: P137487								
Selenium	93	88	75-125	6	20	0.0668 J	0.0561 J	17 (1)	20
Batch number: 103201026001C	Sample number(s): 6140325-6140330 UNSPK: P137487 BKG: P137487								
Molybdenum	107	102	75-125	4	20	0.405	0.240	51* (1)	20
Batch number: 103201026001D	Sample number(s): 6140325-6140330 UNSPK: P137487 BKG: P137487								
Barium	-28 (2)	-606 (2)	75-125	60*	20	125	73.9	51*	20
Batch number: 103205708001	Sample number(s): 6140325-6140330 UNSPK: P137487 BKG: P137487								
Aluminum	166 (2)	99 (2)	75-125	1	20	21,700	18,100	18	20
Boron	90	92	84-115	5	20	6.67	9.72	37* (1)	20
Calcium	-212 (2)	-156 (2)	75-125	7	20	3,730	3,010	22*	20
Iron	-1824 (2)	-3532 (2)	75-125	8	20	24,400	20,600	17	20
Lithium	94	93	82-114	1	20	22.5	18.9	17	20
Magnesium	3 (2)	-219 (2)	75-125	10	20	4,440	3,870	14	20
Manganese	175*	91	75-125	18	20	150	159	6	20
Phosphorus	106	107	75-125	2	20	137	156	13	20
Potassium	153*	128*	75-125	6	20	2,060	1,790	14	20
Sodium	72*	82	75-125	9	20	631	522	19	20
Strontium	85	84	75-115	2	20	35.0	35.3	1	20
Tin	82	83	80-110	5	20	2.35 J	2.20 J	7 (1)	20
Zirconium	93	95	75-125	4	20	3.07 J	4.18 J	31* (1)	20
Batch number: 103205711001	Sample number(s): 6140325-6140330 UNSPK: P137487 BKG: P137487								
Mercury	114	110	65-135	1	20	0.0082 J	0.0224 J	93* (1)	20
Batch number: 103261026002A	Sample number(s): 6140325-6140330 UNSPK: P137487 BKG: P137487								
Vanadium	124	111	75-125	3	20	35.4	38.8	9	20
Batch number: 103265708001	Sample number(s): 6140325-6140330 UNSPK: P137487 BKG: P137487								
Titanium	162 (2)	225 (2)	75-125	4	20	1,260	1,280	2	20
Batch number: 10328328201A	Sample number(s): 6140325-6140328 UNSPK: P138685 BKG: P138685								
Fluoride by IC (solid)	84		80-120			6,100	6,000	2	20
Batch number: 10328328201B	Sample number(s): 6140329-6140330 UNSPK: 6140329 BKG: 6140329								
Fluoride by IC (solid)	67*		80-120			4,400	5,600	26* (1)	20
Batch number: 10330330201A	Sample number(s): 6140325-6140330 UNSPK: 6140325 BKG: 6140325								
Perchlorate in Soil	96		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10335243201A	Sample number(s): 6140325-6140330 UNSPK: P143354 BKG: P143354								
Hexavalent Chromium by IC	88		75-125			320 J	400 J	22* (1)	20

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 10320039401A pH	Sample number(s): 6140325-6140330				BKG: 6140325	7.43	7.44	0	1
Batch number: 10320182101A Oxidation Reduction Potential	Sample number(s): 6140325-6140330				BKG: 6140325	350	350	0	6
Batch number: 10327162401A Moisture CDM	Sample number(s): 6140325-6140330				BKG: P141644	14.1	14.4	2	20

Surrogate Quality Control

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

Analysis Name: VOCs in Soil 8260B

Batch number: B103204AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6140325	98	100	94	90
6140327	97	95	96	88
6140329	97	95	95	89
Blank	99	100	93	90
LCS	96	102	96	93
LCSD	96	101	97	94
MS	95	94	97	93

Limits: 80-120 80-120 81-117 74-121

Analysis Name: 1,4-Dioxane by Isotope DL SIM

Batch number: E103201AA

Toluene-d8

6140325	99
6140327	99
6140329	99
Blank	101
LCS	99
LCSD	100
MS	100
MSD	99

Limits: 70-130

Analysis Name: 1,4-Dioxane by Isotope Dil SIM

Batch number: E103231AA

Toluene-d8

6140331	101
Blank	101

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

Surrogate Quality Control

 LCS 101
 MS 101
 MSD 102

Limits: 80-120

Analysis Name: VOCs in Water 8260B

Batch number: Y103191AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6140331	97	99	102	98
Blank	97	96	101	99
LCS	97	101	103	102
LCSD	98	101	103	102

Limits: 86-118 80-120 88-110 86-115

Analysis Name: TCL SW846 Semivolatiles Soil

Batch number: 10320SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6140325	78	79	77	78	80	82
6140326	88	89	81	83	90	89
6140327	146*	152*	141*	142*	149*	152*
6140328	76	77	68	76	84	88
6140329	77	80	74	78	85	84
6140330	10*	10*	7*	9*	10*	11*
Blank	78	83	83	82	85	78
LCS	81	84	89	80	84	81
MS	84	88	92	84	87	87
MSD	85	86	86	80	85	86

Limits: 25-120 25-130 35-130 40-130 45-130 45-135

Analysis Name: Selected SVOAs in soil by SIM

Batch number: 10322SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6140325	78	80	81
6140326	81	81	81
6140327	73	78	84
6140328	77	81	88
6140329	80	82	89
6140330	75	79	88
Blank	85	91	91
LCS	82	84	84
MS	81	84	82
MSD	81	83	81

Limits: 40-130 45-130 45-135

Analysis Name: PCBs & PCTs in Soil

Batch number: 103230032A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6140325	92	100
6140326	105	105

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/08/10 at 02:31 PM

Group Number: 1221175

Surrogate Quality Control

6140327	96	97
6140328	100	109
6140329	113	122
6140330	104	112
Blank	94	102
LCS	97	107
LCSD	97	108
MS	92	103
MSD	90	100

Limits: 53-139 45-120

*- Outside of specification

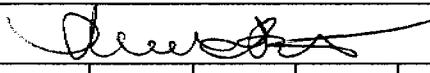
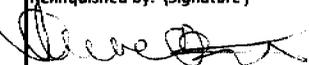
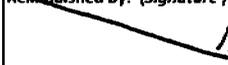
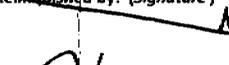
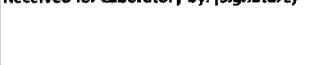
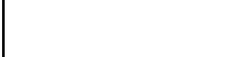
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acct# 13013 Cup# 1221175

sample# 6140325-31

CHAIN OF CUSTODY RECORD

CDM		SSFL AREA IV COLLOCATED SOIL SAMPLING																						Other Instructions and Notes				
NOTES:																												
*Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																												
Samplers: (Signature)																												
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH g/mo/d EPA 8015B	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015B		
SL-096-SA5C-SB-4.5	11.12.10	1045	soil	none	4 - Encore samplers	X	X																					
SL-096-SA5C-SB-4.0-5.0	11.12.10	1050	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X	X												
SL-096-SA5C-SB-9.0-10.0	11.12.10	1055	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-097-SA5C-SB-4.5	11.12.10	0900	soil	none	4 - Encore samplers	X	X																					
SL-097-SA5C-SB-4.0-5.0	11.12.10	0905	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-097-SA5C-SB-9.0-10.0	11.12.10	0910	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-088-SA5C-SB-4.5	11.12.10	1415	soil	none	4 - Encore samplers	X	X																					
SL-088-SA5C-SB-4.0-5.0	11.12.10	1420	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
SL-088-SA5C-SB-8.5-9.5	11.12.10	1425	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X													
TB-111210	11.12.10	1300	water	HCl	3 - 40 ml VOA vials	X	X																					Trip blank
Relinquished by: (Signature)		Date/Time		Relinquished by: (Signature)		Date/Time		Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Laboratory:												
		11.12.10 1530				11/17/10				11/17/10						Lancaster Laboratories, Inc.												
Received by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Airbill No.		Tracking Number														
										11/25/10 0925		00732992		869514313242														

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 09, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/16/2010
Group Number: 1221362
SDG: DE016
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-088-SA5C-SS-0.0-0.5 Soil	6141644
SL-093-SA5C-SB-4.0-5.0 Soil	6141645
SL-093-SA5C-SB-8.0-9.0 Soil	6141646
SL-094-SA5C-SB-4.0-5.0 Soil	6141647
SL-094-SA5C-SB-8.5-9.5 Soil	6141648
SL-090-SA5C-SB-4.0-5.0 Soil	6141649
TB-111510 Water	6141650

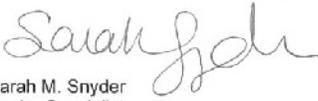
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program
COPY TO
1 COPY TO Data Package Group

Attn: Todd Burgess

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

Respectfully Submitted,



Sarah M. Snyder
Senior Specialist

Sample Description: SL-088-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SS-0.0-0.5

LLI Sample # SW 6141644
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:40 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

08800 SDG#: DE016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580	1
04688	Benzidine	92-87-5	1,400	U 1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U 190	580	1
04688	Benzyl alcohol	100-51-6	190	U 190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	190	1
04688	4-Chloroaniline	106-47-8	78	U 78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580	1
04688	2,4-Dinitrophenol	51-28-5	780	U 780	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	42	J 19	390	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U 78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	39	U 39	190	1
04688	4-Methylphenol	106-44-5	39	U 39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	39	U 39	190	1
04688	4-Nitroaniline	100-01-6	78	U 78	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	580	1

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

Sample Description: SL-088-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SS-0.0-0.5

LLI Sample # SW 6141644
 LLI Group # 1221362
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:40 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

08800 SDG#: DE016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U 39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U 39	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	22		1.9	1
10138	Acenaphthylene	208-96-8	0.58	J 0.39	1.9	1
10138	Anthracene	120-12-7	25		1.9	1
10138	Benzo(a)anthracene	56-55-3	66		1.9	1
10138	Benzo(a)pyrene	50-32-8	100		1.9	1
10138	Benzo(b)fluoranthene	205-99-2	230		1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	19		1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U 0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U 7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U 7.0	21	1
10138	Chrysene	218-01-9	90		1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	7.0		1.9	1
10138	Diethylphthalate	84-66-2	7.0	U 7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U 7.0	21	1
10138	Fluoranthene	206-44-0	150		1.9	1
10138	Fluorene	86-73-7	16		1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	17		1.9	1
10138	1-Methylnaphthalene	90-12-0	3.4		1.9	1
10138	2-Methylnaphthalene	91-57-6	2.8		1.9	1
10138	Naphthalene	91-20-3	2.7		1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U 0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	44		21	1
10138	Phenanthrene	85-01-8	130		1.9	1
10138	Pyrene	129-00-0	200		1.9	1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg			
10401	2,4-D	94-75-7	1.4	U 1.4	4.2	1	
10401	Dalapon	75-99-0	5.1	U 5.1	10	1	
10401	2,4-DB	94-82-6	2.1		0.72	2.0	1
10401	Dicamba	1918-00-9	0.47	U 0.47	1.4	1	
10401	Dinoseb	88-85-7	0.93	U 0.93	2.8	1	
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U 0.93	2.0	1	
10401	MCPA	94-74-6	120	J 88	290	1	
10401	MCPP (Mecoprop)	93-65-2	87	U 87	290	1	
10401	2,4,5-T	93-76-5	0.26		0.095	0.20	1
10401	2,4,5-TP	93-72-1	0.087	U 0.087	0.20	1	

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



Analysis Report

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

Sample Description: SL-088-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SS-0.0-0.5

LLI Sample # SW 6141644
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:40 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

08800 SDG#: DE016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs SW-846 8081A						
			ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.077 U	0.077	0.19	1
01363	Alpha BHC	319-84-6	0.040 U	0.040	0.19	1
01363	Beta BHC	319-85-7	0.070 U	0.070	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.040 U	0.040	0.19	1
01363	Chlordane	57-74-9	1.9 U	1.9	4.0	1
01363	p,p-DDD	72-54-8	0.11 U	0.11	0.40	1
01363	p,p-DDE	72-55-9	0.21 U	0.21	0.40	1
01363	p,p-DDT	50-29-3	0.42 U	0.42	0.42	1
01363	Delta BHC	319-86-8	0.042 U	0.042	0.19	1
01363	Dieldrin	60-57-1	0.17 U	0.17	0.40	1
01363	Endosulfan I	959-98-8	0.051 U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.077 U	0.077	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.077 U	0.077	0.40	1
01363	Endrin	72-20-8	0.077 U	0.077	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.14 U	0.14	0.40	1
01363	Endrin Ketone	53494-70-5	0.077 U	0.077	0.40	1
01363	Heptachlor	76-44-8	0.070 U	0.070	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.040 U	0.040	0.19	1
01363	Methoxychlor	72-43-5	0.40 U	0.40	1.9	1
01363	Mirex	2385-85-5	0.61 U	0.61	0.61	1
01363	Toxaphene	8001-35-2	2.6 U	2.6	7.7	1

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

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.9 J	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58 U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.61 U	0.61	2.0	1
10225	PCB-1242	53469-21-9	0.58 U	0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38 U	0.38	2.0	1
10225	PCB-1260	11096-82-5	3.9	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B						
			mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,600	5.69	22.6	1
07914	Boron	7440-42-8	9.63	1.01	5.65	1
01650	Calcium	7440-70-2	3,320	6.93	22.6	1

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

Sample Description: SL-088-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SS-0.0-0.5

LLI Sample # SW 6141644
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:40 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

08800 SDG#: DE016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01654	Iron	7439-89-6	22,300	5.32	22.6	1
01656	Lithium	7439-93-2	19.6	0.25	2.3	1
01657	Magnesium	7439-95-4	4,490	2.87	11.3	1
06958	Manganese	7439-96-5	243	0.0882	0.565	1
10145	Phosphorus	7723-14-0	231	0.633	11.3	1
01662	Potassium	7440-09-7	2,760	20.3	56.5	1
01667	Sodium	7440-23-5	180	42.2	113	1
07968	Strontium	7440-24-6	28.3	0.0701	0.565	1
06969	Tin	7440-31-5	2.60 J	1.13	11.3	1
06970	Titanium	7440-32-6	1,150	0.851	2.24	2
10146	Zirconium	7440-67-7	3.91 J	0.949	5.65	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.336	0.0685	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.99	0.0685	0.457	2
06126	Barium	7440-39-3	167	0.123	0.457	2
06127	Beryllium	7440-41-7	0.647	0.0183	0.114	2
06128	Cadmium	7440-43-9	0.742	0.0411	0.114	2
06131	Chromium	7440-47-3	25.3	0.137	0.457	2
06132	Cobalt	7440-48-4	17.6	0.0228	0.114	2
06133	Copper	7440-50-8	23.6	0.0753	0.457	2
06135	Lead	7439-92-1	15.3	0.0119	0.228	2
06138	Molybdenum	7439-98-7	0.804	0.0571	0.114	2
06139	Nickel	7440-02-0	15.5	0.114	0.457	2
06141	Selenium	7782-49-2	0.198 J	0.0457	0.457	2
06142	Silver	7440-22-4	0.0404 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.355	0.0342	0.114	2
06148	Vanadium	7440-62-2	55.9	0.0251	0.114	2
06149	Zinc	7440-66-6	145	0.639	3.42	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110	1
Wet Chemistry						
	EPA 300.0		ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	5,100	930	1,200	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.5 U	10.5	34.9	1
	SW-846 7199		ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	1,200 J	230	1,200	1
	ASTM D1498		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	374	10.0	10.0	1

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

Sample Description: SL-088-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SS-0.0-0.5

LLI Sample # SW 6141644
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:40 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

08800 SDG#: DE016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
	ASTM D1498		mV	mV	mV	
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.09	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	Moisture CDM	n.a.	14.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10323SLC026	12/03/2010 12:52	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/01/2010 23:37	Gregory J Drahovsky	1
10479	BNA Soil Extraction	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103260003A	11/24/2010 02:01	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103280011A	11/28/2010 05:22	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 10:27	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103280011A	11/25/2010 03:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103260003A	11/22/2010 13:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:04	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 16:09	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 16:09	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 16:09	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:04	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 16:09	John P Hook	1

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

Sample Description: SL-088-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-088-SA5C-SS-0.0-0.5

LLI Sample # SW 6141644
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:40 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

08800 SDG#: DE016-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 16:09	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:04	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:04	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:04	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:04	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:07	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:04	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 11:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 11:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 11:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 05:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10336336201A	12/03/2010 23:14	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201A	11/29/2010 12:17	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10335243201A	12/02/2010 09:31	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201A	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101A	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401A	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-093-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5C-SB-4.0-5.0

LLI Sample # SW 6141645
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:44 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09345 SDG#: DE016-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7 U	6.7	8.0	0.88
06192	Benzene	71-43-2	0.10 U	0.10	4.0	0.88
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0	0.88
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0	0.88
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0	0.88
06192	Bromoform	75-25-2	0.40 U	0.40	4.0	0.88
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0	0.88
06192	2-Butanone	78-93-3	1.2 U	1.2	8.0	0.88
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0	0.88
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0	0.88
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0	0.88
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0	0.88
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0	0.88
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0	0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0	0.88
06192	Chloroform	67-66-3	0.12 U	0.12	4.0	0.88
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0	0.88
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0	0.88
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0	0.88
06192	Chlorotrifluoroethene	79-38-9	0.50 U	0.50	5.0	0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70 U	0.70	4.0	0.88
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0	0.88
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0	0.88
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0	0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0	0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0	0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0	0.88
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0	0.88
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.0	0.88
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0	0.88
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0	0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0	0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0	0.88
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0	0.88
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0	0.88
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0	0.88
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0	0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0	0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0	0.88
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0	0.88
06192	Freon 113	76-13-1	0.11 U	0.11	4.0	0.88
06192	Freon 133a	75-88-7	0.50 U	0.50	5.0	0.88
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0	0.88
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.0	0.88
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0	0.88
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0	0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0	0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	8.0	0.88
06192	Methylene Chloride	75-09-2	0.24 U	0.24	4.0	0.88
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0	0.88

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

Sample Description: SL-093-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5C-SB-4.0-5.0

LLI Sample # SW 6141645
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:44 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09345 SDG#: DE016-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.10 U	0.10	4.0	0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0	0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0	0.88
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0	0.88
06192	Toluene	108-88-3	0.08 U	0.08	4.0	0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0	0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0	0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0	0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0	0.88
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0	0.88
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0	0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0	0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0	0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.0	0.88
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0	0.88
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0	0.88
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0	0.88
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.7 U	4.7	14	20.59
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190	U 190	570	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	570	1
04688	Benzyl alcohol	100-51-6	190	U 190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	76	U 76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1

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

Sample Description: SL-093-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-093-SA5C-SB-4.0-5.0

LLI Sample # SW 6141645
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:44 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09345 SDG#: DE016-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J 19	380	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	76	U 76	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	570	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U 0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.79	J 0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J 0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21	1
10138	Chrysene	218-01-9	0.87	J 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21	1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U 0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U 0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U 0.76	1.9	1

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

Sample Description: SL-093-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-093-SA5C-SB-4.0-5.0

LLI Sample # SW 6141645
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:44 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09345 SDG#: DE016-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9 U	6.9	21	1
10138	Phenanthrene	85-01-8	0.86 J	0.76	1.9	1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9	1
Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57 U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57 U	0.57	1.9	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38 U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.38 U	0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,200	5.69	22.6	1
07914	Boron	7440-42-8	11.1	1.01	5.65	1
01650	Calcium	7440-70-2	3,660	6.93	22.6	1
01654	Iron	7439-89-6	26,900	5.32	22.6	1
01656	Lithium	7439-93-2	25.0	0.25	2.3	1
01657	Magnesium	7439-95-4	5,540	2.87	11.3	1
06958	Manganese	7439-96-5	449	0.0882	0.565	1
10145	Phosphorus	7723-14-0	120	0.633	11.3	1
01662	Potassium	7440-09-7	1,980	20.3	56.5	1
01667	Sodium	7440-23-5	195	42.2	113	1
07968	Strontium	7440-24-6	37.1	0.0701	0.565	1
06969	Tin	7440-31-5	2.66 J	1.13	11.3	1
06970	Titanium	7440-32-6	1,340	0.851	2.24	2
10146	Zirconium	7440-67-7	3.82 J	0.949	5.65	1
SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.161 J	0.0672	0.224	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.0	0.0672	0.448	2
06126	Barium	7440-39-3	205	0.302	1.12	5
06127	Beryllium	7440-41-7	0.914	0.0179	0.112	2
06128	Cadmium	7440-43-9	0.117	0.0403	0.112	2
06131	Chromium	7440-47-3	35.0	0.134	0.448	2
06132	Cobalt	7440-48-4	8.76	0.0224	0.112	2
06133	Copper	7440-50-8	14.2	0.0739	0.448	2

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

Sample Description: SL-093-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-093-SA5C-SB-4.0-5.0

LLI Sample # SW 6141645
 LLI Group # 1221362
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:44 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09345 SDG#: DE016-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	10.4	0.0116	0.224	2
06138	Molybdenum	7439-98-7	0.483	0.0560	0.112	2
06139	Nickel	7440-02-0	19.8	0.112	0.448	2
06141	Selenium	7782-49-2	0.0644 J	0.0448	0.448	2
06142	Silver	7440-22-4	0.0637 J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.397	0.0336	0.112	2
06148	Vanadium	7440-62-2	68.2	0.0246	0.112	2
06149	Zinc	7440-66-6	78.7	0.627	3.36	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0085 J	0.0032	0.111	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	2,700	910	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.3 U	10.3	34.2	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	350 J	230	1,100	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	429	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.68	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	12.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-093-SA5C-SB-4.5.

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

Sample Description: SL-093-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-093-SA5C-SB-4.0-5.0

LLI Sample # SW 6141645
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:44 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09345 SDG#: DE016-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	E103204AA	11/17/2010 11:02	Holly Berry	0.88
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103232AA	11/19/2010 17:10	Jason M Long	20.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032022975	11/16/2010 18:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032022975	11/16/2010 19:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032022975	11/16/2010 19:02	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032022975	11/16/2010 18:38	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10323SLC026	12/03/2010 13:18	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/02/2010 09:07	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 10:45	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:14	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 16:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 16:16	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 16:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:14	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 16:16	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 16:16	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:14	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:14	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:14	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:14	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:14	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:11	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:14	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/24/2010 09:40	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 11:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 11:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 05:56	Damary Valentin	1

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

Sample Description: SL-093-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-093-SA5C-SB-4.0-5.0

LLI Sample # SW 6141645
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:44 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09345 SDG#: DE016-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10336336201A	12/03/2010 23:58	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201A	11/29/2010 12:41	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10335243201A	12/02/2010 09:58	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201A	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101A	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401A	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-093-SA5C-SB-8.0-9.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-093-SA5C-SB-8.0-9.0

LLI Sample # SW 6141646
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:48 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09389 SDG#: DE016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	560	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U 190	560	1
04688	Benzyl alcohol	100-51-6	190	U 190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	190	1
04688	4-Chloroaniline	106-47-8	74	U 74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	190	1
04688	Chrysene	218-01-9	23	J 19	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U 740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J 19	370	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	37	U 37	190	1
04688	4-Methylphenol	106-44-5	37	U 37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	37	U 37	190	1
04688	4-Nitroaniline	100-01-6	74	U 74	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					

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

Sample Description: SL-093-SA5C-SB-8.0-9.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-093-SA5C-SB-8.0-9.0

LLI Sample # SW 6141646
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:48 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09389 SDG#: DE016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	190	U 190	560	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.89	J 0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	5.4	U 0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	10	U 0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20	1
10138	Fluoranthene	206-44-0	2.0	U 0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	J 0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U 0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U 0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U 0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U 6.7	20	1
10138	Phenanthrene	85-01-8	4.2	U 0.74	1.9	1
10138	Pyrene	129-00-0	2.8	U 0.74	1.9	1
Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U 0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U 0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U 0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U 0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U 0.37	1.9	1
10225	PCB-1254	11097-69-1	1.1	J 0.37	1.9	1
10225	PCB-1260	11096-82-5	0.69	J 0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U 0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U 0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,900	5.43	21.6

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

Sample Description: SL-093-SA5C-SB-8.0-9.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-093-SA5C-SB-8.0-9.0

LLI Sample # SW 6141646
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:48 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09389 SDG#: DE016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	8.44	0.960	5.39	1
01650	Calcium	7440-70-2	5,140	6.61	21.6	1
01654	Iron	7439-89-6	21,400	5.08	21.6	1
01656	Lithium	7439-93-2	22.9	0.24	2.2	1
01657	Magnesium	7439-95-4	4,740	2.74	10.8	1
06958	Manganese	7439-96-5	211	0.0841	0.539	1
10145	Phosphorus	7723-14-0	279	0.604	10.8	1
01662	Potassium	7440-09-7	1,570	19.4	53.9	1
01667	Sodium	7440-23-5	202	40.2	108	1
07968	Strontium	7440-24-6	71.7	0.0669	0.539	1
06969	Tin	7440-31-5	2.32 J	1.08	10.8	1
06970	Titanium	7440-32-6	799	0.844	2.22	2
10146	Zirconium	7440-67-7	3.63 J	0.906	5.39	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.180 J	0.0647	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	12.4	0.0647	0.431	2
06126	Barium	7440-39-3	111	0.117	0.431	2
06127	Beryllium	7440-41-7	0.726	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.115	0.0388	0.108	2
06131	Chromium	7440-47-3	36.8	0.129	0.431	2
06132	Cobalt	7440-48-4	7.71	0.0216	0.108	2
06133	Copper	7440-50-8	13.2	0.0712	0.431	2
06135	Lead	7439-92-1	8.90	0.0112	0.216	2
06138	Molybdenum	7439-98-7	1.47	0.0539	0.108	2
06139	Nickel	7440-02-0	22.5	0.108	0.431	2
06141	Selenium	7782-49-2	0.294 J	0.0431	0.431	2
06142	Silver	7440-22-4	0.0129 U	0.0129	0.108	2
06145	Thallium	7440-28-0	0.259	0.0324	0.108	2
06148	Vanadium	7440-62-2	50.3	0.0237	0.108	2
06149	Zinc	7440-66-6	65.1	0.604	3.24	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0520 J	0.0032	0.110	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	2,800	890	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10 U	10	33.3	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	230 J	220	1,100	1

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

Sample Description: SL-093-SA5C-SB-8.0-9.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-093-SA5C-SB-8.0-9.0

LLI Sample # SW 6141646
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:48 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09389 SDG#: DE016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	417	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
00394	pH	n.a.	7.68	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	10.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10323SLC026	12/03/2010 13:44	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/02/2010 09:40	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 11:04	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:17	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 16:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 16:24	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 16:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:17	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 16:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 16:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:17	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:17	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:17	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:17	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:17	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:21	Joanne M Gates	2

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

Sample Description: SL-093-SA5C-SB-8.0-9.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-093-SA5C-SB-8.0-9.0

LLI Sample # SW 6141646
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 09:48 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09389 SDG#: DE016-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:17	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 11:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 11:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 11:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 05:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10336336201A	12/04/2010 00:13	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201A	11/29/2010 13:05	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10335243201A	12/02/2010 10:12	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201A	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101B	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401B	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1



Analysis Report

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

Sample Description: SL-094-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5C-SB-4.0-5.0

LLI Sample # SW 6141647
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:10 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09445 SDG#: DE016-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5 U	6.5	7.8	0.84
06192	Benzene	71-43-2	0.1 U	0.1	3.9	0.84
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9	0.84
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9	0.84
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9	0.84
06192	Bromoform	75-25-2	0.39 U	0.39	3.9	0.84
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9	0.84
06192	2-Butanone	78-93-3	1.2 U	1.2	7.8	0.84
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9	0.84
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9	0.84
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9	0.84
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9	0.84
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9	0.84
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9	0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9	0.84
06192	Chloroform	67-66-3	0.12 U	0.12	3.9	0.84
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9	0.84
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9	0.84
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9	0.84
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9	0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68 U	0.68	3.9	0.84
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.9	0.84
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.9	0.84
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9	0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9	0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9	0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9	0.84
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9	0.84
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9	0.84
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9	0.84
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9	0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.9	0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9	0.84
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.9	0.84
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9	0.84
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.9	0.84
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9	0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9	0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.9	0.84
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9	0.84
06192	Freon 113	76-13-1	0.11 U	0.11	3.9	0.84
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9	0.84
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9	0.84
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.8	0.84
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9	0.84
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9	0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.9	0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.8	0.84
06192	Methylene Chloride	75-09-2	0.23 U	0.23	3.9	0.84
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9	0.84

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

Sample Description: SL-094-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5C-SB-4.0-5.0

LLI Sample # SW 6141647
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:10 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09445 SDG#: DE016-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1	3.9	0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9	0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.9	0.84
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.9	0.84
06192	Toluene	108-88-3	0.08 J	0.08	3.9	0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9	0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	3.9	0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.9	0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9	0.84
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9	0.84
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.9	0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9	0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9	0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9	0.84
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.9	0.84
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.9	0.84
06192	o-Xylene	95-47-6	0.16 U	0.16	3.9	0.84
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.0 U	5.0	15	21.55
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190	U 190	580	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	580	1
04688	Benzyl alcohol	100-51-6	190	U 190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	77	U 77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1

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

Sample Description: SL-094-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-094-SA5C-SB-4.0-5.0

LLI Sample # SW 6141647
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:10 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09445 SDG#: DE016-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J 19	380	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	77	U 77	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	580	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.6	J 0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	3.1	U 0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21	1
10138	Chrysene	218-01-9	1.0	J 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9	1

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

Sample Description: SL-094-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-094-SA5C-SB-4.0-5.0

LLI Sample # SW 6141647
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:10 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09445 SDG#: DE016-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	2-Methylnaphthalene	91-57-6	0.77 U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77 U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77 U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9 U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77 U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77 U	0.77	1.9	1

	Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2 U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58 U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60 U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58 U	0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.61 J	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38 U	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	SW-846 6010B	mg/kg	mg/kg	mg/kg		
01643	Aluminum	7429-90-5	26,400	5.69	22.6	1
07914	Boron	7440-42-8	12.8	1.01	5.65	1
01650	Calcium	7440-70-2	5,400	6.93	22.6	1
01654	Iron	7439-89-6	28,100	5.33	22.6	1
01656	Lithium	7439-93-2	25.7	0.25	2.3	1
01657	Magnesium	7439-95-4	6,320	2.87	11.3	1
06958	Manganese	7439-96-5	556	0.0882	0.565	1
10145	Phosphorus	7723-14-0	200	0.633	11.3	1
01662	Potassium	7440-09-7	2,580	20.4	56.5	1
01667	Sodium	7440-23-5	670	42.2	113	1
07968	Strontium	7440-24-6	46.0	0.0701	0.565	1
06969	Tin	7440-31-5	2.58 J	1.13	11.3	1
06970	Titanium	7440-32-6	1,290	0.877	2.31	2
10146	Zirconium	7440-67-7	5.60 J	0.950	5.65	1

	SW-846 6020	mg/kg	mg/kg	mg/kg		
06124	Antimony	7440-36-0	0.206 J	0.0665	0.222	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.58	0.0665	0.444	2
06126	Barium	7440-39-3	128	0.120	0.444	2
06127	Beryllium	7440-41-7	0.730	0.0177	0.111	2
06128	Cadmium	7440-43-9	0.189	0.0399	0.111	2
06131	Chromium	7440-47-3	32.7	0.133	0.444	2

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

Sample Description: SL-094-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-094-SA5C-SB-4.0-5.0

LLI Sample # SW 6141647
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:10 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09445 SDG#: DE016-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	7.85	0.0222	0.111	2
06133	Copper	7440-50-8	13.0	0.0732	0.444	2
06135	Lead	7439-92-1	9.85	0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.424	0.0555	0.111	2
06139	Nickel	7440-02-0	18.3	0.111	0.444	2
06141	Selenium	7782-49-2	0.121 J	0.0444	0.444	2
06142	Silver	7440-22-4	0.0756 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.335	0.0333	0.111	2
06148	Vanadium	7440-62-2	60.5	0.0244	0.111	2
06149	Zinc	7440-66-6	67.8	0.621	3.33	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	13,200	920	1,200	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.4 U	10.4	34.6	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	330 J	230	1,200	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	410	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.28	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	13.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-094-SA5C-SB-4.5.

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

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

Sample Description: SL-094-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-094-SA5C-SB-4.0-5.0

LLI Sample # SW 6141647
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:10 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09445 SDG#: DE016-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103204AA	11/17/2010 11:24	Holly Berry	0.84
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103232AA	11/19/2010 17:29	Jason M Long	21.55
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032022975	11/16/2010 18:54	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032022975	11/16/2010 19:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032022975	11/16/2010 19:02	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032022975	11/16/2010 18:51	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10323SLC026	12/03/2010 14:10	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/02/2010 10:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 11:23	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:21	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 16:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 16:35	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 16:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:21	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 16:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 16:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:21	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:21	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:21	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:21	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:21	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:24	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:21	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 11:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 11:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 11:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 05:58	Damary Valentin	1

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

Sample Description: SL-094-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5C-SB-4.0-5.0

LLI Sample # SW 6141647
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:10 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09445 SDG#: DE016-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10336336201A	12/04/2010 00:27	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201A	11/29/2010 13:29	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10335243201A	12/02/2010 10:33	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201A	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101B	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401B	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-094-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-094-SA5C-SB-8.5-9.5

LLI Sample # SW 6141648
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:14 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09489 SDG#: DE016-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	570	1
04688	Benzyl alcohol	100-51-6	190	U 190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	77	U 77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570	1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J 19	380	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	77	U 77	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	570	1

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

Sample Description: SL-094-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-094-SA5C-SB-8.5-9.5

LLI Sample # SW 6141648
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:14 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09489 SDG#: DE016-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C						
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U 0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J 0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21	1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U 0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U 0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U 6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U 0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U 0.77	1.9	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U 0.38	2.0	1
10225	PCB-1221	11104-28-2	0.57	U 0.57	2.0	1
10225	PCB-1232	11141-16-5	0.60	U 0.60	2.0	1
10225	PCB-1242	53469-21-9	0.57	U 0.57	2.0	1
10225	PCB-1248	12672-29-6	0.38	U 0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U 0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38	U 0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U 0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U 0.38	2.0	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	26,100	5.72	22.7	1

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

Sample Description: SL-094-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-094-SA5C-SB-8.5-9.5

LLI Sample # SW 6141648
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:14 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09489 SDG#: DE016-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	12.1	1.01	5.68	1
01650	Calcium	7440-70-2	4,880	6.97	22.7	1
01654	Iron	7439-89-6	28,500	5.35	22.7	1
01656	Lithium	7439-93-2	33.7	0.25	2.3	1
01657	Magnesium	7439-95-4	6,160	2.89	11.4	1
06958	Manganese	7439-96-5	242	0.0887	0.568	1
10145	Phosphorus	7723-14-0	187	0.637	11.4	1
01662	Potassium	7440-09-7	3,440	20.5	56.8	1
01667	Sodium	7440-23-5	495	42.4	114	1
07968	Strontium	7440-24-6	39.6	0.0705	0.568	1
06969	Tin	7440-31-5	2.83 J	1.14	11.4	1
06970	Titanium	7440-32-6	1,320	0.847	2.23	2
10146	Zirconium	7440-67-7	4.98 J	0.955	5.68	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.161 J	0.0669	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	9.19	0.0669	0.446	2
06126	Barium	7440-39-3	88.2	0.120	0.446	2
06127	Beryllium	7440-41-7	0.862	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.143	0.0401	0.111	2
06131	Chromium	7440-47-3	31.4	0.134	0.446	2
06132	Cobalt	7440-48-4	7.60	0.0223	0.111	2
06133	Copper	7440-50-8	14.7	0.0736	0.446	2
06135	Lead	7439-92-1	9.63	0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.505	0.0557	0.111	2
06139	Nickel	7440-02-0	17.9	0.111	0.446	2
06141	Selenium	7782-49-2	0.0695 J	0.0446	0.446	2
06142	Silver	7440-22-4	0.0662 J	0.0134	0.111	2
06145	Thallium	7440-28-0	0.375	0.0334	0.111	2
06148	Vanadium	7440-62-2	56.6	0.0245	0.111	2
06149	Zinc	7440-66-6	78.0	0.624	3.34	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111	1
Wet Chemistry						
	EPA 300.0		ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	8,600	920	1,100	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.3 U	10.3	34.4	1
	SW-846 7199		ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	340 J	230	1,100	1

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

Sample Description: SL-094-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-094-SA5C-SB-8.5-9.5

LLI Sample # SW 6141648
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:14 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09489 SDG#: DE016-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	370	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.43	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	12.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10323SLC026	12/03/2010 14:37	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/02/2010 10:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 11:41	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 16:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 16:43	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 16:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 16:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 16:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:27	Joanne M Gates	2

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

Sample Description: SL-094-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-094-SA5C-SB-8.5-9.5

LLI Sample # SW 6141648
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 11:14 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09489 SDG#: DE016-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 11:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 11:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 11:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 05:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10336336201A	12/04/2010 00:42	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201B	11/29/2010 15:30	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10335243201A	12/02/2010 10:47	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101B	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401B	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-090-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-090-SA5C-SB-4.0-5.0

LLI Sample # SW 6141649
 LLI Group # 1221362
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 14:09 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09045 SDG#: DE016-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9 U	6.9	8.3	0.91
06192	Benzene	71-43-2	0.10 U	0.10	4.1	0.91
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1	0.91
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1	0.91
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1	0.91
06192	Bromoform	75-25-2	0.41 U	0.41	4.1	0.91
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1	0.91
06192	2-Butanone	78-93-3	1.3 U	1.3	8.3	0.91
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1	0.91
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1	0.91
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.1	0.91
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1	0.91
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1	0.91
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1	0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1	0.91
06192	Chloroform	67-66-3	0.12 U	0.12	4.1	0.91
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1	0.91
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1	0.91
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1	0.91
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2	0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1	0.91
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1	0.91
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.1	0.91
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1	0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1	0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1	0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.1	0.91
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1	0.91
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1	0.91
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.1	0.91
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1	0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.1	0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1	0.91
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.1	0.91
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1	0.91
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.1	0.91
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1	0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.1	0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.1	0.91
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1	0.91
06192	Freon 113	76-13-1	0.11 U	0.11	4.1	0.91
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2	0.91
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1	0.91
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3	0.91
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1	0.91
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1	0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1	0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.3	0.91
06192	Methylene Chloride	75-09-2	0.25 U	0.25	4.1	0.91
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1	0.91

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

Sample Description: SL-090-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5C-SB-4.0-5.0

LLI Sample # SW 6141649
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 14:09 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09045 SDG#: DE016-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.10 U	0.10	4.1	0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1	0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1	0.91
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1	0.91
06192	Toluene	108-88-3	0.09 J	0.08	4.1	0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1	0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.1	0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1	0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1	0.91
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.1	0.91
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1	0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1	0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1	0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1	0.91
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1	0.91
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.1	0.91
06192	o-Xylene	95-47-6	0.18 U	0.18	4.1	0.91
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.2 U	5.2	16	22.94
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190	U 190	570	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	570	1
04688	Benzyl alcohol	100-51-6	190	U 190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	76	U 76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1

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

Sample Description: SL-090-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-090-SA5C-SB-4.0-5.0

LLI Sample # SW 6141649
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 14:09 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09045 SDG#: DE016-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J 19	380	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	76	U 76	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	570	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U 0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U 0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U 0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	21	1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	21	1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	21	1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	21	1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U 0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U 0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U 0.76	1.9	1

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

Sample Description: SL-090-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-090-SA5C-SB-4.0-5.0

LLI Sample # SW 6141649
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 14:09 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09045 SDG#: DE016-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	21	1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9	1
Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57 U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57 U	0.57	1.9	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38 U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.38 U	0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,200	5.67	22.6	1
07914	Boron	7440-42-8	9.57	1.00	5.64	1
01650	Calcium	7440-70-2	4,250	6.91	22.6	1
01654	Iron	7439-89-6	22,700	5.31	22.6	1
01656	Lithium	7439-93-2	22.8	0.25	2.3	1
01657	Magnesium	7439-95-4	4,410	2.86	11.3	1
06958	Manganese	7439-96-5	219	0.0880	0.564	1
10145	Phosphorus	7723-14-0	168	0.631	11.3	1
01662	Potassium	7440-09-7	1,880	20.3	56.4	1
01667	Sodium	7440-23-5	127	42.1	113	1
07968	Strontium	7440-24-6	33.2	0.0699	0.564	1
06969	Tin	7440-31-5	2.58 J	1.13	11.3	1
06970	Titanium	7440-32-6	1,050	0.857	2.26	2
10146	Zirconium	7440-67-7	4.12 J	0.947	5.64	1
SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.175 J	0.0683	0.228	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.78	0.0683	0.456	2
06126	Barium	7440-39-3	128	0.123	0.456	2
06127	Beryllium	7440-41-7	0.705	0.0182	0.114	2
06128	Cadmium	7440-43-9	0.118	0.0410	0.114	2
06131	Chromium	7440-47-3	34.3	0.137	0.456	2
06132	Cobalt	7440-48-4	6.21	0.0228	0.114	2
06133	Copper	7440-50-8	11.8	0.0752	0.456	2

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

Sample Description: SL-090-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-090-SA5C-SB-4.0-5.0

LLI Sample # SW 6141649
 LLI Group # 1221362
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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 14420 Albemarle Point Place
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 Chantilly VA 20151

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09045 SDG#: DE016-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	7.64	0.0118	0.228	2
06138	Molybdenum	7439-98-7	0.423	0.0569	0.114	2
06139	Nickel	7440-02-0	20.5	0.114	0.456	2
06141	Selenium	7782-49-2	0.0663 J	0.0456	0.456	2
06142	Silver	7440-22-4	0.0659 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.309	0.0342	0.114	2
06148	Vanadium	7440-62-2	45.9	0.0251	0.114	2
06149	Zinc	7440-66-6	65.4	0.638	3.42	2
Mercury						
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	5,200	910	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.3 U	10.3	34.2	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	470 J	230	1,100	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	398	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.04	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	12.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-090-SA5C-SB-4.5.

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

Sample Description: SL-090-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-090-SA5C-SB-4.0-5.0

LLI Sample # SW 6141649
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 14:09 by PH

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 Chantilly VA 20151

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09045 SDG#: DE016-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103204AA	11/17/2010 11:47	Holly Berry	0.91
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103232AA	11/19/2010 17:49	Jason M Long	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032022975	11/16/2010 18:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032022975	11/16/2010 19:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032022975	11/16/2010 19:02	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032022975	11/16/2010 18:55	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10323SLC026	12/03/2010 15:03	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/02/2010 11:22	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103230032A	11/25/2010 12:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103230032A	11/20/2010 09:30	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:28	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 18:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 18:29	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 18:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 18:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 18:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:28	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:28	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:28	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:31	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:28	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 11:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/24/2010 11:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 11:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 06:00	Damary Valentin	1

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

Sample Description: SL-090-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-090-SA5C-SB-4.0-5.0

LLI Sample # SW 6141649
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 14:09 by PH

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

09045 SDG#: DE016-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10336336201A	12/04/2010 00:57	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201B	11/29/2010 15:54	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10335243201A	12/02/2010 10:54	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10320182101B	11/16/2010 14:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10320039401B	11/16/2010 14:30	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401A	11/24/2010 05:21	William C Schwebel	1

Sample Description: TB-111510 Water
 SSFL Area IV Collocated Soil Sampling
 TB-111510

LLI Sample # WW 6141650
 LLI Group # 1221362
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 16:30

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

TB115 SDG#: DE016-06TB*

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

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



Analysis Report

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

Sample Description: TB-111510 Water
 SSFL Area IV Collocated Soil Sampling
 TB-111510

LLI Sample # WW 6141650
LLI Group # 1221362
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2010 16:30

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

Submitted: 11/16/2010 09:15

Reported: 12/09/2010 11:59

TB115 SDG#: DE016-06TB*

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103263AA	11/22/2010 06:00	Holly Berry	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103231AA	11/19/2010 11:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103231AA	11/19/2010 11:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103263AA	11/22/2010 06:00	Holly Berry	1

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103204AA	Sample number(s): 6141645, 6141647, 6141649								
Acetone	6.7 U	6.7	8.0	ug/kg	97	95	32-209	2	30
Benzene	0.10 U	0.10	4.0	ug/kg	100	99	80-120	1	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	96	96	79-120	0	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	139*	138*	79-124	0	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40 U	0.40	4.0	ug/kg	87	85	70-120	2	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	83	82	32-162	0	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	92	89	46-153	3	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	98	97	72-120	1	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	101	100	75-120	0	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	93	93	75-120	0	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	91	90	69-122	1	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	95	95	80-120	0	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	84	84	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	89	85	43-146	4	30
Chloroform	0.12 U	0.12	4.0	ug/kg	97	97	80-120	0	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	75	74	54-132	0	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	96	95	78-120	1	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	95	96	79-120	2	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	124	112	22-131	10	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	87	87	58-120	0	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	92	92	77-120	0	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	96	96	80-120	0	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	98	96	80-120	2	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	94	94	79-120	1	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	95	95	78-120	0	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	95	94	79-120	1	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	62	60	20-120	2	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	98	96	80-120	2	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	93	92	71-129	1	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	102	100	73-123	2	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	98	98	80-120	0	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	93	91	79-120	2	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	95	96	80-120	1	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	97	96	80-120	0	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	76	76	72-123	0	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	99	97	77-120	2	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	86	87	80-120	1	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	81	81	77-120	1	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	95	95	80-120	1	30
Freon 113	0.11 U	0.11	4.0	ug/kg	118	116	61-126	2	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	88	82	78-120	7	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	98	95	57-120	3	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	89	88	45-155	1	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	95	93	76-120	2	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	97	97	75-120	0	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	92	92	74-121	0	30
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	95	91	61-134	4	30
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	89	89	76-124	0	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	102	101	77-120	1	30
Styrene	0.10 U	0.10	4.0	ug/kg	91	91	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	89	89	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	99	99	71-123	0	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	94	93	77-120	1	30
Toluene	0.08 U	0.08	4.0	ug/kg	96	95	80-120	1	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	90	91	64-120	1	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	89	88	68-120	1	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	89	88	71-125	1	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	96	96	80-120	0	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	96	95	80-120	1	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	90	87	58-133	3	30
1,2,3-Trimethylpropane	0.33 U	0.33	4.0	ug/kg	99	98	71-123	1	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	98	98	79-120	0	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	97	96	78-120	1	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	75	75	53-120	0	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	94	93	80-120	1	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	91	91	80-120	0	30
Batch number: E103231AA Sample number(s): 6141650									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	98		60-132		
Batch number: E103232AA Sample number(s): 6141645,6141647,6141649									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	97	97	70-130	0	30
Batch number: Y103263AA Sample number(s): 6141650									
Acetone	6 U	6.	20	ug/l	192	193	49-234	1	30
Benzene	0.5 U	0.5	5	ug/l	95	94	79-120	2	30
Bromobenzene	1 U	1.	5	ug/l	105	105	80-120	0	30
Bromochloromethane	1 U	1.	5	ug/l	93	90	80-120	3	30
Bromodichloromethane	1 U	1.	5	ug/l	91	89	80-120	2	30
Bromoform	1 U	1.	5	ug/l	90	99	61-120	10	30
Bromomethane	1 U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3 U	3.	10	ug/l	119	118	66-151	1	30
n-Butylbenzene	1 U	1.	5	ug/l	100	99	74-120	1	30
sec-Butylbenzene	1 U	1.	5	ug/l	107	107	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	100	99	80-120	2	30
Carbon Tetrachloride	1 U	1.	5	ug/l	93	90	75-123	3	30
Chlorobenzene	0.8 U	0.8	5	ug/l	96	94	80-120	2	30
Chloroethane	1 U	1.	5	ug/l	95	90	49-129	6	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	107	107	56-129	1	30
Chloroform	0.8 U	0.8	5	ug/l	96	94	77-122	2	30
Chloromethane	1 U	1.	5	ug/l	91	87	60-129	4	30
2-Chlorotoluene	1 U	1.	5	ug/l	107	103	80-120	4	30
4-Chlorotoluene	1 U	1.	5	ug/l	100	97	80-120	3	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	119	112	38-136	6	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	112	108	66-120	3	30
Dibromochloromethane	1 U	1.	5	ug/l	94	92	80-120	2	30
1,2-Dibromoethane	1 U	1.	5	ug/l	101	99	80-120	2	30
Dibromomethane	1 U	1.	5	ug/l	96	92	80-120	4	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	95	80-120	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	102	100	80-120	2	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	70	68	47-120	2	30
1,1-Dichloroethane	1 U	1.	5	ug/l	98	96	79-120	2	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dichloroethane	1 U	1.	5	ug/l	93	91	70-130	2	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	107	106	74-123	1	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	95	80-120	2	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	94	80-120	3	30
1,2-Dichloropropane	1 U	1.	5	ug/l	94	92	78-120	2	30
1,3-Dichloropropane	1 U	1.	5	ug/l	99	98	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	86	84	77-124	2	30
1,1-Dichloropropene	1 U	1.	5	ug/l	95	94	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	87	85	80-120	2	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	90	89	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	98	96	79-120	2	30
Freon 113	2 U	2.	10	ug/l	113	114	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	101	93	77-120	8	30
Hexachlorobutadiene	2 U	2.	5	ug/l	98	95	58-120	3	30
2-Hexanone	3 U	3.	10	ug/l	116	114	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	97	95	77-120	2	30
p-Isopropyltoluene	1 U	1.	5	ug/l	106	103	80-120	3	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	94	76-120	1	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	98	93	70-121	5	30
Methylene Chloride	2 U	2.	5	ug/l	86	82	80-120	5	30
n-Propylbenzene	1 U	1.	5	ug/l	110	108	80-120	2	30
Styrene	1 U	1.	5	ug/l	98	107	80-120	8	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	97	94	80-120	3	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	110	109	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	96	94	80-121	2	30
Toluene	0.7 U	0.7	5	ug/l	98	98	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	100	99	65-120	1	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	99	98	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	95	94	75-127	1	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	99	97	80-120	3	30
Trichloroethene	1 U	1.	5	ug/l	94	91	80-120	4	30
Trichlorofluoromethane	2 U	2.	5	ug/l	94	92	64-129	1	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	111	109	80-120	2	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	106	106	74-120	0	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	105	102	75-120	3	30
Vinyl Chloride	1 U	1.	5	ug/l	83	82	65-125	0	30
m+p-Xylene	0.8 U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8 U	0.8	5	ug/l	95	92	80-120	3	30

Batch number: 10322SLI026

Sample number(s): 6141644-6141649

Acenaphthene	0.67 U	0.67	1.7	ug/kg	95		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	88		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	96		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	114		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	124		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	105		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	123		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	96		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	109		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	102		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	108		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	105		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	102		70-130		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	100		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	106		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	94		72-120		

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	88		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	85		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	111		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	94		56-121		
Batch number: 10323SLC026 Sample number(s): 6141644-6141649									
Aniline	170 U	170.	500	ug/kg	64		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	33		15-121		
Benzoic acid	170 U	170.	500	ug/kg	95		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	97		79-117		
Carbazole	17 U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	96		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	32		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	84		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	92		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	98		79-110		
Chrysene	17 U	17.	170	ug/kg	97		76-113		
Dibenzofuran	17 U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	69		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	110		70-130		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	65		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	63		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	94		77-111		
bis(2-Ethylhexyl)phthalate	17 U	17.	330	ug/kg	102		75-117		
Hexachlorobenzene	17 U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	86		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	88		68-105		
Isophorone	17 U	17.	170	ug/kg	87		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	85		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	67		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	87		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	83		56-118		

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Quality Control Summary

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 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88	63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98	67-141		
Pentachlorophenol	170		170.	500	ug/kg	90	35-106		
Phenol	17	U	17.	170	ug/kg	91	58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88	73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98	76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98	78-111		
Batch number: 103260003A	Sample number(s): 6141644								
2,4-D	1.2	U	1.2	3.6	ug/kg	94	40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	31	24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	89	34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	71	20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*	10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	93	60-141		
MCPA	76	U	76.	250	ug/kg	86	34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	86	29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	102	33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	77	48-138		
Batch number: 103230032A	Sample number(s): 6141644-6141649								
Aroclor 5432	1.0	U	1.0	3.3	ug/kg				
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	68*	75-125	6	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg				
PCB-1016	0.33	U	0.33	1.7	ug/kg	90	72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg				
PCB-1232	0.52	U	0.52	1.7	ug/kg				
PCB-1242	0.50	U	0.50	1.7	ug/kg				
PCB-1248	0.33	U	0.33	1.7	ug/kg				
PCB-1254	0.33	U	0.33	1.7	ug/kg				
PCB-1260	0.33	U	0.33	1.7	ug/kg	100	65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg				
PCB-1268	0.33	U	0.33	1.7	ug/kg				
Batch number: 103280011A	Sample number(s): 6141644								
Aldrin	0.066	U	0.066	0.17	ug/kg	94	44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	109	38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	91	56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	109	46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg				
p,p-DDD	0.066	U	0.066	0.34	ug/kg	149*	60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	110	59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	134*	54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	97	55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	132*	65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	112	45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	97	63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	110	72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	129	62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	105	55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	110	69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	142*	43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	100	65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	133*	59-125		
Mirex	0.066	U	0.066	0.34	ug/kg				
Toxaphene	2.2	U	2.2	6.6	ug/kg				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 103221026002A	Sample number(s): 6141644-6141649								
Antimony	0.0600 U	0.0600	0.200	mg/kg	108		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	108		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	103		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	111		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	104		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	103		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	118		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	103		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	106		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	102		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	91		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	106		78-122		
Batch number: 103221026002B	Sample number(s): 6141644-6141649								
Selenium	0.0400 U	0.0400	0.400	mg/kg	107		79-122		
Batch number: 103221026002C	Sample number(s): 6141644-6141649								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 103221026002D	Sample number(s): 6141644-6141649								
Barium	0.108 U	0.108	0.400	mg/kg	109		79-121		
Batch number: 103225708004	Sample number(s): 6141644-6141649								
Aluminum	7.99 J	5.03	20.0	mg/kg	85		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	92		78-110		
Calcium	11.5 J	6.13	20.0	mg/kg	92		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	89		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	109		80-120		
Magnesium	3.21 J	2.54	10.0	mg/kg	92		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	96		81-119		
Phosphorus	1.59 J	0.560	10.0	mg/kg	108		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3 U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	98		79-121		
Tin	1.21 J	1.00	10.0	mg/kg	99		90-114		
Zirconium	0.840 U	0.840	5.00	mg/kg	107		80-120		
Batch number: 103225711004	Sample number(s): 6141644-6141649								
Mercury	0.0028 U	0.0028	0.0974	mg/kg	97		88-123		
Batch number: 103265708002	Sample number(s): 6141644-6141649								
Titanium	0.362 U	0.362	0.952	mg/kg	87		80-120		
Batch number: 10330330201A	Sample number(s): 6141644-6141647								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	115		85-115		
Batch number: 10330330201B	Sample number(s): 6141648-6141649								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	115		85-115		
Batch number: 10335243201A	Sample number(s): 6141644-6141649								
Hexavalent Chromium by IC	200 U	200.	1,000	ug/kg	97		80-120		
Batch number: 10336336201A	Sample number(s): 6141644-6141649								
Fluoride by IC (solid)	800 U	800.	1,000	ug/kg	108		90-110		

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 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10320039401A pH	U			Sample number(s): 6141644-6141645	99		95-105		
Batch number: 10320039401B pH				Sample number(s): 6141646-6141649	99		95-105		
Batch number: 10320182101A Oxidation Reduction Potential				Sample number(s): 6141644-6141645	98		98-102		
Batch number: 10320182101B Oxidation Reduction Potential				Sample number(s): 6141646-6141649	98		98-102		
Batch number: 10327162401A Moisture CDM				Sample number(s): 6141644-6141649	100		80-120		

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103204AA	Sample number(s): 6141645,6141647,6141649 UNSPK: P140325								
Acetone	88		15-210						
Benzene	103		55-143						
Bromobenzene	99		43-139						
Bromochloromethane	130		60-137						
Bromodichloromethane	93		53-136						
Bromoform	80		38-124						
Bromomethane	71		42-168						
2-Butanone	76		37-163						
n-Butylbenzene	105		30-146						
sec-Butylbenzene	110		33-157						
tert-Butylbenzene	100		41-152						
Carbon Tetrachloride	94		45-153						
Chlorobenzene	99		49-135						
Chloroethane	71		39-152						
2-Chloroethyl Vinyl Ether	76		32-139						
Chloroform	100		61-142						
Chloromethane	67		51-163						
2-Chlorotoluene	101		42-146						
4-Chlorotoluene	101		39-145						
1,2-Dibromo-3-chloropropane	72		30-139						
Dibromochloromethane	89		51-128						
1,2-Dibromoethane	90		54-129						
Dibromomethane	93		57-130						
1,2-Dichlorobenzene	96		36-133						
1,3-Dichlorobenzene	99		34-134						
1,4-Dichlorobenzene	99		35-136						
Dichlorodifluoromethane	45		26-151						
1,1-Dichloroethane	99		63-142						
1,2-Dichloroethane	90		68-131						

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

Sample Matrix Quality Control

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

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,1-Dichloroethene	103		61-149						
cis-1,2-Dichloroethene	99		60-136						
trans-1,2-Dichloroethene	89		59-142						
1,2-Dichloropropane	97		62-135						
1,3-Dichloropropane	94		58-129						
2,2-Dichloropropane	78		53-147						
1,1-Dichloropropene	102		54-145						
cis-1,3-Dichloropropene	87		51-131						
trans-1,3-Dichloropropene	79		49-129						
Ethylbenzene	101		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	99		10-155						
2-Hexanone	70		32-160						
Isopropylbenzene	100		38-144						
p-Isopropyltoluene	105		29-152						
Methyl Tertiary Butyl Ether	77		55-129						
4-Methyl-2-pentanone	73		46-139						
Methylene Chloride	92		61-141						
n-Propylbenzene	113		39-157						
Styrene	95		35-134						
1,1,1,2-Tetrachloroethane	91		52-130						
1,1,2,2-Tetrachloroethane	90		40-152						
Tetrachloroethene	103		42-149						
Toluene	101		50-146						
1,2,3-Trichlorobenzene	85		10-140						
1,2,4-Trichlorobenzene	87		10-136						
1,1,1-Trichloroethane	92		64-142						
1,1,2-Trichloroethane	91		54-139						
Trichloroethene	100		53-144						
Trichlorofluoromethane	89		47-163						
1,2,3-Trichloropropane	88		45-154						
1,2,4-Trimethylbenzene	104		37-149						
1,3,5-Trimethylbenzene	103		38-150						
Vinyl Chloride	70		50-154						
m+p-Xylene	98		44-137						
o-Xylene	94		42-137						

 Batch number: E103231AA Sample number(s): 6141650 UNSPK: P144810
 1,4-Dioxane 104 (2) 149 (2) 50-150 8 30

 Batch number: 10322SLI026 Sample number(s): 6141644-6141649 UNSPK: P140325
 Acenaphthene 93 89 63-105 4 30
 Acenaphthylene 83 82 55-126 1 30
 Anthracene 89 89 46-136 0 30
 Benzo(a)anthracene 92 92 39-144 0 30
 Benzo(a)pyrene 104 103 34-156 0 30
 Benzo(b)fluoranthene 112 109 43-155 3 30
 Benzo(g,h,i)perylene 73 73 33-141 1 30
 Benzo(k)fluoranthene 114 116 42-144 2 30
 Butylbenzylphthalate 88 90 73-140 2 30
 Di-n-butylphthalate 100 103 78-160 3 30
 Chrysene 91 91 29-156 0 30
 Dibenz(a,h)anthracene 76 80 41-130 4 30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

Sample Matrix Quality Control

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

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Diethylphthalate	96	98	87-131	1	30				
Dimethylphthalate	96	95	74-118	0	30				
Fluoranthene	88	89	26-166	1	30				
Fluorene	96	96	45-121	1	30				
Indeno(1,2,3-cd)pyrene	80	75	21-143	7	30				
1-Methylnaphthalene	89	87	72-123	3	30				
2-Methylnaphthalene	80	78	28-121	3	30				
Naphthalene	86	81	61-102	6	30				
N-Nitrosodimethylamine	85	83	48-113	2	30				
Di-n-octylphthalate	109	111	40-192	1	30				
Phenanthrene	87	88	12-165	1	30				
Pyrene	86	85	15-153	1	30				

Batch number: 10323SLC026 Sample number(s): 6141644-6141649 UNSPK: P144589

Aniline	57	62	14-114	9	30				
Benzidine	21*	0*	35-141	200*	30				
Benzoic acid	32	36	10-173	12	30				
Benzyl alcohol	84	95	55-123	12	30				
4-Bromophenyl-phenylether	91	97	67-129	6	30				
Carbazole	92	96	64-120	4	30				
4-Chloro-3-methylphenol	90	95	53-130	6	30				
4-Chloroaniline	60	64	23-95	5	30				
bis(2-Chloroethoxy)methane	83	90	54-117	9	30				
bis(2-Chloroethyl)ether	81	88	60-116	9	30				
bis(2-Chloroisopropyl)ether	71	79	55-142	10	30				
2-Chloronaphthalene	85	92	50-141	8	30				
2-Chlorophenol	87	95	73-121	8	30				
4-Chlorophenyl-phenylether	94	101	64-119	7	30				
Chrysene	89	95	62-128	7	30				
Dibenzofuran	92	97	71-112	6	30				
1,2-Dichlorobenzene	79	87	66-108	10	30				
1,3-Dichlorobenzene	79	88	63-109	11	30				
1,4-Dichlorobenzene	83	91	53-113	9	30				
3,3'-Dichlorobenzidine	58	69	25-123	18	30				
2,4-Dichlorophenol	91	99	78-117	8	30				
2,4-Dimethylphenol	88	95	56-130	8	30				
3,5-Dimethylphenol	101	108	70-130	7	30				
4,6-Dinitro-2-methylphenol	63	75	10-148	17	30				
2,4-Dinitrophenol	44	51	20-143	16	30				
2,4-Dinitrotoluene	93	95	57-114	2	30				
2,6-Dinitrotoluene	90	97	69-123	8	30				
1,2-Diphenylhydrazine	85	92	71-129	7	30				
bis(2-Ethylhexyl)phthalate	96	104	63-122	8	30				
Hexachlorobenzene	91	96	61-111	5	30				
Hexachlorobutadiene	82	90	62-120	9	30				
Hexachlorocyclopentadiene	80	75	10-153	7	30				
Hexachloroethane	77	84	57-109	8	30				
Isophorone	79	87	51-118	9	30				
2-Methylphenol	85	92	47-142	8	30				
4-Methylphenol	82	89	55-126	8	30				
2-Nitroaniline	90	96	67-125	7	30				
3-Nitroaniline	86	91	59-122	5	30				
4-Nitroaniline	74	75	52-112	1	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Nitrobenzene	81	90	51-114	11	30				
2-Nitrophenol	88	97	74-115	10	30				
4-Nitrophenol	72	76	39-133	5	30				
N-Nitroso-di-n-propylamine	74	83	60-116	12	30				
N-Nitrosodiphenylamine	91	97	86-145	7	30				
Pentachlorophenol	76	84	17-149	10	30				
Phenol	80	88	58-126	10	30				
1,2,4-Trichlorobenzene	85	93	72-115	9	30				
2,4,5-Trichlorophenol	94	99	34-139	5	30				
2,4,6-Trichlorophenol	93	99	49-140	7	30				
Batch number: 103260003A Sample number(s): 6141644 UNSPK: 6141644									
2,4-D	95	96	28-161	1	35				
Dalapon	37	34	12-86	8	50				
2,4-DB	66	65	20-170	1	50				
Dicamba	94	81	33-120	15	50				
Dinoseb	7	7	1-44	3	35				
2,4-DP (Dichlorprop)	107	105	55-141	2	50				
MCPA	85	79	31-184	7	50				
MCPP (Mecoprop)	96	88	16-174	9	50				
2,4,5-T	58	54	25-132	4	35				
2,4,5-TP	73	66	10-183	10	35				
Batch number: 103230032A Sample number(s): 6141644-6141649 UNSPK: P140325									
PCB-1016	83	81	29-146	3	50				
PCB-1260	90	86	39-149	4	50				
Batch number: 103280011A Sample number(s): 6141644 UNSPK: 6141644									
Aldrin	74	71	16-126	4	50				
Alpha BHC	94	97	10-129	3	50				
Beta BHC	72	75	14-147	4	50				
Gamma BHC - Lindane	91	91	10-140	0	50				
p,p-DDD	181*	176*	16-163	3	50				
p,p-DDE	116	115	18-161	1	50				
p,p-DDT	165	163	10-176	1	50				
Delta BHC	75	72	23-140	4	50				
Dieldrin	108	106	19-154	1	50				
Endosulfan I	91	94	16-137	3	50				
Endosulfan II	84	97	28-154	14	50				
Endosulfan Sulfate	68	62	21-160	10	50				
Endrin	106	105	11-149	1	50				
Endrin Aldehyde	90	103	10-148	13	35				
Endrin Ketone	92	94	22-165	2	50				
Heptachlor	118	115	13-126	3	50				
Heptachlor Epoxide	87	84	13-157	4	50				
Methoxychlor	148*	166*	32-147	12	50				
Batch number: 103221026002A Sample number(s): 6141644-6141649 UNSPK: P144589 BKG: P144589									
Antimony	41*	41*	75-125	1	20	0.239	0.271	13 (1)	20
Arsenic	205*	167*	75-125	7	20	6.31	6.38	1	20
Beryllium	66*	47*	75-125	11	20	0.905	0.751	19	20
Cadmium	147*	133*	75-125	7	20	0.150	0.120	22* (1)	20
Chromium	178*	123	75-125	16	20	17.6	26.3	40*	20

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
Cobalt	106	99	75-125	4	20	11.5	17	20
Copper	139*	118	75-125	9	20	8.13	29*	20
Lead	119	100	75-125	4	20	8.00	14	20
Nickel	148*	144*	75-125	0	20	11.3	27*	20
Silver	136*	124	75-125	7	20	0.0441 J	47* (1)	20
Thallium	94	84	75-125	5	20	0.390	26* (1)	20
Vanadium	220*	153*	75-125	11	20	38.2	25*	20
Zinc	235 (2)	233 (2)	75-125	0	20	40.6	38*	20
Batch number: 103221026002B	Sample number(s): 6141644-6141649 UNSPK: P144589 BKG: P144589							
Selenium	131*	113	75-125	12	20	0.0907 J	35* (1)	20
Batch number: 103221026002C	Sample number(s): 6141644-6141649 UNSPK: P144589 BKG: P144589							
Molybdenum	136*	115	75-125	14	20	0.512	19 (1)	20
Batch number: 103221026002D	Sample number(s): 6141644-6141649 UNSPK: P144589 BKG: P144589							
Barium	194 (2)	-18 (2)	75-125	18	20	111	37*	20
Batch number: 103225708004	Sample number(s): 6141644-6141649 UNSPK: P144589 BKG: P144589							
Aluminum	4629 (2)	3151 (2)	75-125	9	20	24,000	1	20
Boron	96	97	84-115	2	20	9.82	5 (1)	20
Calcium	227 (2)	466 (2)	75-125	19	20	3,530	0	20
Iron	3490 (2)	1719 (2)	75-125	7	20	23,000	8	20
Lithium	115*	113	82-114	1	20	21.7	0	20
Magnesium	561 (2)	292 (2)	75-125	10	20	4,580	3	20
Manganese	106 (2)	86 (2)	75-125	3	20	272	27*	20
Phosphorus	140*	131*	75-125	4	20	124	12	20
Potassium	242*	173*	75-125	17	20	2,020	3	20
Sodium	110	109	75-125	0	20	307	1 (1)	20
Strontium	104	104	75-115	0	20	33.5	1	20
Tin	90	92	80-110	2	20	2.30 J	1 (1)	20
Zirconium	101	103	75-125	2	20	4.88 J	23* (1)	20
Batch number: 103225711004	Sample number(s): 6141644-6141649 UNSPK: P144589 BKG: P144589							
Mercury	108	105	65-135	3	20	0.0080 J	51* (1)	20
Batch number: 103265708002	Sample number(s): 6141644-6141649 UNSPK: P144589 BKG: P144589							
Titanium	-5 (2)	198 (2)	75-125	17	20	1,050	12	20
Batch number: 10330330201A	Sample number(s): 6141644-6141647 UNSPK: P140325 BKG: P140325							
Perchlorate in Soil	96		80-120			9.0 U	0 (1)	15
Batch number: 10330330201B	Sample number(s): 6141648-6141649 UNSPK: P144589 BKG: P144589							
Perchlorate in Soil	102		80-120			9.0 U	0 (1)	15
Batch number: 10335243201A	Sample number(s): 6141644-6141649 UNSPK: P143354 BKG: P143354							
Hexavalent Chromium by IC	88		75-125			320 J	22* (1)	20
Batch number: 10336336201A	Sample number(s): 6141644-6141649 UNSPK: P144589 BKG: P144589							
Fluoride by IC (solid)	82		80-120			4,500	11 (1)	20

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Quality Control Summary

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Group Number: 1221362

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>	
Batch number: 10320039401A pH	Sample number(s): 6141644-6141645				BKG: P140325	7.43	7.44	0	1
Batch number: 10320039401B pH	Sample number(s): 6141646-6141649				BKG: 6141646	7.68	7.69	0	1
Batch number: 10320182101A Oxidation Reduction Potential	Sample number(s): 6141644-6141645				BKG: P140325	350	350	0	6
Batch number: 10320182101B Oxidation Reduction Potential	Sample number(s): 6141646-6141649				BKG: 6141646	417	418	0	6
Batch number: 10327162401A Moisture CDM	Sample number(s): 6141644-6141649				BKG: 6141644	14.1	14.4	2	20

Surrogate Quality Control

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

 Analysis Name: VOCs in Soil 8260B
 Batch number: B103204AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6141645	98	98	96	92
6141647	97	95	96	89
6141649	98	98	96	90
Blank	99	100	93	90
LCS	96	102	96	93
LCSD	96	101	97	94
MS	95	94	97	93
Limits:	80-120	80-120	81-117	74-121

 Analysis Name: 1,4-Dioxane by Isotope Dil SIM
 Batch number: E103231AA
 Toluene-d8

6141650	102
Blank	101
LCS	101
MS	101
MSD	102
Limits:	80-120

 Analysis Name: 1,4-Dioxane by Isotope DL SIM
 Batch number: E103232AA
 Toluene-d8

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

Surrogate Quality Control

 6141645 97
 6141647 99
 6141649 98
 Blank 99
 LCS 100
 LCSD 100

Limits: 70-130

Analysis Name: VOCs in Water 8260B

Batch number: Y103263AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6141650	96	96	103	100
Blank	99	94	103	100
LCS	99	99	104	101
LCSD	97	98	104	100

Limits: 86-118 80-120 88-110 86-115

Analysis Name: Selected SVOAs in soil by SIM

Batch number: 10322SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6141644	84	84	115
6141645	82	82	80
6141646	85	86	78
6141647	83	82	80
6141648	77	78	77
6141649	75	79	83
Blank	85	91	91
LCS	82	84	84
MS	81	84	82
MSD	81	83	81

Limits: 40-130 45-130 45-135

Analysis Name: TCL SW846 Semivolatiles Soil

Batch number: 10323SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6141644	88	91	86	80	88	94
6141645	78	80	80	71	79	87
6141646	83	87	82	79	87	88
6141647	83	86	85	78	87	97
6141648	77	80	76	73	80	91
6141649	80	82	84	76	85	93
Blank	82	85	91	80	85	79
LCS	88	91	90	80	83	84
MS	78	80	89	74	81	83
MSD	84	88	92	80	85	88

Limits: 25-120 25-130 35-130 40-130 45-130 45-135

Analysis Name: PCBs & PCTs in Soil

Batch number: 103230032A

	Tetrachloro-m-xylene	Decachlorobiphenyl
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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/09/10 at 11:59 AM

Group Number: 1221362

Surrogate Quality Control

6141644	94	92
6141645	111	103
6141646	95	95
6141647	93	87
6141648	80	80
6141649	95	94
Blank	94	102
LCS	97	107
LCSD	97	108
MS	92	103
MSD	90	100

Limits: 53-139 45-120

Analysis Name: Herbicide soils 8151A Master
Batch number: 103260003A
2,4-Dichlorophenylacetic
acid

6141644	87
Blank	77
LCS	78
MS	89
MSD	86

Limits: 36-156

Analysis Name: OC Pesticides in Solids
Batch number: 103280011A
Tetrachloro-m-xylene Decachlorobiphenyl

6141644	85	80
Blank	78	107
LCS	86	108
MS	78	73
MSD	81	92

Limits: 50-130 20-120

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13013 1221362 6141644-50

CHAIN OF CUSTODY RECORD

CDM		SSFL AREA IV COLLOCATED SOIL SAMPLING				VOCs/EPA 8260B	1,4-Dioxane EPA 8260S1M	SVOCs EPA 8270C & PAHs 8270 SIM	TPH g/mo/d EPA 8015B	*Metals EPA 6010/60208&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																			
Samplers: (Signature) <i>Patricia Hartman</i>																			
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers														
SL-088-SA5C-SS-0.0-0.5	11.15.10	1140	soil	none	1 - 16 oz jar				X	X	X		X	X		X	X		
SL-088-SA5C-SS-0.0-0.5	11.15.10	1140	soil	none	1 - brass sleeve			X				X							
SL-093-SA5C-SB-4.5	11.15.10	0942	soil	none	4 - Encore samplers	X	X												
SL-093-SA5C-SB-4.0-5.0	11.15.10	0944	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X					
SL-093-SA5C-SB-8.0-9.0	11.15.10	0948	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X					
SL-094-SA5C-SB-4.5	11.15.10	1105	soil	none	4 - Encore samplers														
SL-094-SA5C-SB-4.0-5.0	11.15.10	1110	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X					
SL-094-SA5C-SB-8.0-9.0	11.15.10	1114	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X					
SL-090-SA5C-SB-4.5	11.15.10	1407	soil	none	4 - Encore samplers	X	X												
SL-090-SA5C-SB-4.0-5.0	11.15.10	1409	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X					
TB-111210	11.15.10	1630	water	HCl	3 - 40 ml VOA vials	X	X												Trip blank
RB 11/15/10																			
Relinquished by: (Signature) <i>[Signature]</i>		Date/Time 11.15.10 1530		Received for Laboratory by: (Signature) <i>[Signature]</i>			Date/Time 11/16/10 0915											Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature) _____		Date/Time _____		Airbill No. 00732992			Tracking Number 869514313253												

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 08, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/17/2010
Group Number: 1221705
SDG: DE017
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-083-SA5C-SB-2.5-3.5 Soil	6143353
SL-085-SA5C-SB-2.5-3.0 Soil	6143354
TB-111610 Water	6143355
EB08-SA5C-111610 Water	6143356

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

ELECTRONIC CDM Federal Services Program
COPY TO
1 COPY TO Data Package Group

Attn: Todd Burgess

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

Respectfully Submitted,



Robin C. Runkle
Senior Specialist

Sample Description: SL-083-SA5C-SB-2.5-3.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-083-SA5C-SB-2.5-3.5

LLI Sample # SW 6143353
 LLI Group # 1221705
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 13:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL083 SDG#: DE017-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7 U	7.7	9.2	1.06
06192	Benzene	71-43-2	0.11 U	0.11	4.6	1.06
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.6	1.06
06192	Bromochloromethane	74-97-5	0.38 U	0.38	4.6	1.06
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.6	1.06
06192	Bromoform	75-25-2	0.46 U	0.46	4.6	1.06
06192	Bromomethane	74-83-9	0.29 U	0.29	4.6	1.06
06192	2-Butanone	78-93-3	1.4 U	1.4	9.2	1.06
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	4.6	1.06
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.6	1.06
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.6	1.06
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.6	1.06
06192	Chlorobenzene	108-90-7	0.13 U	0.13	4.6	1.06
06192	Chloroethane	75-00-3	0.15 U	0.15	4.6	1.06
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34 U	0.34	4.6	1.06
06192	Chloroform	67-66-3	0.14 U	0.14	4.6	1.06
06192	Chloromethane	74-87-3	0.38 U	0.38	4.6	1.06
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.6	1.06
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.6	1.06
06192	Chlorotrifluoroethene	79-38-9	0.57 U	0.57	5.7	1.06
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80 U	0.80	4.6	1.06
06192	Dibromochloromethane	124-48-1	0.23 U	0.23	4.6	1.06
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.6	1.06
06192	Dibromomethane	74-95-3	0.28 U	0.28	4.6	1.06
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	4.6	1.06
06192	1,3-Dichlorobenzene	541-73-1	0.14 U	0.14	4.6	1.06
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.6	1.06
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	4.6	1.06
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.6	1.06
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.6	1.06
06192	1,1-Dichloroethene	75-35-4	0.45 U	0.45	4.6	1.06
06192	cis-1,2-Dichloroethene	156-59-2	0.22 U	0.22	4.6	1.06
06192	trans-1,2-Dichloroethene	156-60-5	0.14 U	0.14	4.6	1.06
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.6	1.06
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.6	1.06
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.6	1.06
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.6	1.06
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.6	1.06
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.6	1.06
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.6	1.06
06192	Freon 113	76-13-1	0.13 U	0.13	4.6	1.06
06192	Freon 133a	75-88-7	0.57 U	0.57	5.7	1.06
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.6	1.06
06192	2-Hexanone	591-78-6	1.8 U	1.8	9.2	1.06
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.6	1.06
06192	p-Isopropyltoluene	99-87-6	0.13 U	0.13	4.6	1.06
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24 U	0.24	4.6	1.06
06192	4-Methyl-2-pentanone	108-10-1	0.45 U	0.45	9.2	1.06
06192	Methylene Chloride	75-09-2	0.28 U	0.28	4.6	1.06
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.6	1.06

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

Sample Description: SL-083-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5C-SB-2.5-3.5

LLI Sample # SW 6143353
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 13:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL083 SDG#: DE017-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.6	1.06
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13 U	0.13	4.6	1.06
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26 U	0.26	4.6	1.06
06192	Tetrachloroethene	127-18-4	0.23 U	0.23	4.6	1.06
06192	Toluene	108-88-3	0.09 U	0.09	4.6	1.06
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.6	1.06
06192	1,2,4-Trichlorobenzene	120-82-1	0.21 U	0.21	4.6	1.06
06192	1,1,1-Trichloroethane	71-55-6	0.23 U	0.23	4.6	1.06
06192	1,1,2-Trichloroethane	79-00-5	0.31 U	0.31	4.6	1.06
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.6	1.06
06192	Trichlorofluoromethane	75-69-4	0.33 U	0.33	4.6	1.06
06192	1,2,3-Trichloropropane	96-18-4	0.38 U	0.38	4.6	1.06
06192	1,2,4-Trimethylbenzene	95-63-6	0.46 U	0.46	4.6	1.06
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.6	1.06
06192	Vinyl Chloride	75-01-4	0.23 U	0.23	4.6	1.06
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.6	1.06
06192	o-Xylene	95-47-6	0.19 U	0.19	4.6	1.06
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16	24.65
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180 U	180	540	1
04688	Benzidine	92-87-5	1,300 U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180 U	180	540	1
04688	Benzyl alcohol	100-51-6	180 U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18 U	18	180	1
04688	Carbazole	86-74-8	18 U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36 U	36	180	1
04688	4-Chloroaniline	106-47-8	72 U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18 U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18 U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18 U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18 U	18	180	1
04688	2-Chlorophenol	95-57-8	18 U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36 U	36	180	1
04688	Dibenzofuran	132-64-9	18 U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18 U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18 U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18 U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18 U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36 U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36 U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180 U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720 U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36 U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18 U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18 U	18	180	1

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

Sample Description: SL-083-SA5C-SB-2.5-3.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-083-SA5C-SB-2.5-3.5

LLI Sample # SW 6143353
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 13:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL083 SDG#: DE017-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J 18	360	1
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	36	U 36	180	1
04688	4-Methylphenol	106-44-5	36	U 36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	36	U 36	180	1
04688	4-Nitroaniline	100-01-6	72	U 72	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	180	U 180	540	1
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U 0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U 0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U 0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U 0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U 0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	19	1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U 0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U 0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U 0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U 0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U 0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U 0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U 0.72	1.8	1

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

Sample Description: SL-083-SA5C-SB-2.5-3.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-083-SA5C-SB-2.5-3.5

LLI Sample # SW 6143353
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 13:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL083 SDG#: DE017-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56 U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.8	1
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	15,000	5.33	21.2	1
07914	Boron	7440-42-8	9.75	0.942	5.29	1
01650	Calcium	7440-70-2	3,520	6.49	21.2	1
01654	Iron	7439-89-6	25,700	4.99	21.2	1
01656	Lithium	7439-93-2	32.0	0.23	2.1	1
01657	Magnesium	7439-95-4	5,130	2.69	10.6	1
06958	Manganese	7439-96-5	542	0.0826	0.529	1
10145	Phosphorus	7723-14-0	452	0.593	10.6	1
01662	Potassium	7440-09-7	2,140	19.1	52.9	1
01667	Sodium	7440-23-5	583	39.5	106	1
07968	Strontium	7440-24-6	26.1	0.0656	0.529	1
06969	Tin	7440-31-5	2.51 J	1.06	10.6	1
06970	Titanium	7440-32-6	1,110	0.813	2.14	2
10146	Zirconium	7440-67-7	2.84 J	0.889	5.29	1
SW-846 6020						
06124	Antimony	7440-36-0	0.134 J	0.0648	0.216	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.27	0.0648	0.432	2
06126	Barium	7440-39-3	74.2	0.117	0.432	2
06127	Beryllium	7440-41-7	0.845	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.0641 J	0.0389	0.108	2
06131	Chromium	7440-47-3	23.5	0.130	0.432	2
06132	Cobalt	7440-48-4	19.7	0.0216	0.108	2
06133	Copper	7440-50-8	14.8	0.0713	0.432	2
06135	Lead	7439-92-1	9.56	0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.478	0.0540	0.108	2

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

Sample Description: SL-083-SA5C-SB-2.5-3.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-083-SA5C-SB-2.5-3.5

LLI Sample # SW 6143353
 LLI Group # 1221705
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 13:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL083 SDG#: DE017-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06139	Nickel	7440-02-0	20.1	0.108	0.432	2
06141	Selenium	7782-49-2	0.0639 J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0149 J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.267	0.0324	0.108	2
06148	Vanadium	7440-62-2	36.9	0.0238	0.108	2
06149	Zinc	7440-66-6	73.9	0.605	3.24	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	10,100	860	1,100	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.7 U	9.7	32.4	1
		SW-846 7199	ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	260 J	220	1,100	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	453	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.28	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	7.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-083-SA5C-SB-3.5.

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

Sample Description: SL-083-SA5C-SB-2.5-3.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-083-SA5C-SB-2.5-3.5

LLI Sample # SW 6143353
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 13:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL083 SDG#: DE017-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103232AA	11/19/2010 16:40	Kenneth L Boley Jr	1.06
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103232AA	11/19/2010 18:09	Jason M Long	24.65
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032122995	11/17/2010 22:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201032122995	11/17/2010 22:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201032122995	11/17/2010 22:47	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032122995	11/17/2010 22:35	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10323SLC026	12/03/2010 15:29	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/02/2010 11:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103260008A	12/01/2010 22:19	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:31	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 18:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 18:33	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 18:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:31	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 18:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 18:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:31	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:31	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:31	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:31	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:31	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:34	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:31	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 11:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 11:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 11:56	Choon Y Tian	2

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

Sample Description: SL-083-SA5C-SB-2.5-3.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-083-SA5C-SB-2.5-3.5

LLI Sample # SW 6143353
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 13:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL083 SDG#: DE017-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 06:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10336336201A	12/04/2010 01:11	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201B	11/29/2010 16:18	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10335243201A	12/02/2010 11:08	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103A	11/18/2010 11:40	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10322039403A	11/18/2010 11:40	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401B	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-085-SA5C-SB-2.5-3.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5C-SB-2.5-3.0

LLI Sample # SW 6143354
 LLI Group # 1221705
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 15:03 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL085 SDG#: DE017-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.7 U	9.7	12	1.22
06192	Benzene	71-43-2	0.15 U	0.15	5.8	1.22
06192	Bromobenzene	108-86-1	0.19 U	0.19	5.8	1.22
06192	Bromochloromethane	74-97-5	0.48 U	0.48	5.8	1.22
06192	Bromodichloromethane	75-27-4	0.12 U	0.12	5.8	1.22
06192	Bromoform	75-25-2	0.58 U	0.58	5.8	1.22
06192	Bromomethane	74-83-9	0.36 U	0.36	5.8	1.22
06192	2-Butanone	78-93-3	1.8 U	1.8	12	1.22
06192	n-Butylbenzene	104-51-8	0.17 U	0.17	5.8	1.22
06192	sec-Butylbenzene	135-98-8	0.09 U	0.09	5.8	1.22
06192	tert-Butylbenzene	98-06-6	0.23 U	0.23	5.8	1.22
06192	Carbon Tetrachloride	56-23-5	0.20 U	0.20	5.8	1.22
06192	Chlorobenzene	108-90-7	0.16 U	0.16	5.8	1.22
06192	Chloroethane	75-00-3	0.19 U	0.19	5.8	1.22
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.43 U	0.43	5.8	1.22
06192	Chloroform	67-66-3	0.17 U	0.17	5.8	1.22
06192	Chloromethane	74-87-3	0.48 U	0.48	5.8	1.22
06192	2-Chlorotoluene	95-49-8	0.20 U	0.20	5.8	1.22
06192	4-Chlorotoluene	106-43-4	0.20 U	0.20	5.8	1.22
06192	Chlorotrifluoroethene	79-38-9	0.72 U	0.72	7.2	1.22
06192	1,2-Dibromo-3-chloropropane	96-12-8	1.0 U	1.0	5.8	1.22
06192	Dibromochloromethane	124-48-1	0.29 U	0.29	5.8	1.22
06192	1,2-Dibromoethane	106-93-4	0.25 U	0.25	5.8	1.22
06192	Dibromomethane	74-95-3	0.35 U	0.35	5.8	1.22
06192	1,2-Dichlorobenzene	95-50-1	0.13 U	0.13	5.8	1.22
06192	1,3-Dichlorobenzene	541-73-1	0.17 U	0.17	5.8	1.22
06192	1,4-Dichlorobenzene	106-46-7	0.23 U	0.23	5.8	1.22
06192	Dichlorodifluoromethane	75-71-8	0.17 U	0.17	5.8	1.22
06192	1,1-Dichloroethane	75-34-3	0.15 U	0.15	5.8	1.22
06192	1,2-Dichloroethane	107-06-2	0.22 U	0.22	5.8	1.22
06192	1,1-Dichloroethene	75-35-4	0.56 U	0.56	5.8	1.22
06192	cis-1,2-Dichloroethene	156-59-2	0.27 U	0.27	5.8	1.22
06192	trans-1,2-Dichloroethene	156-60-5	0.17 U	0.17	5.8	1.22
06192	1,2-Dichloropropane	78-87-5	0.25 U	0.25	5.8	1.22
06192	1,3-Dichloropropane	142-28-9	0.12 U	0.12	5.8	1.22
06192	2,2-Dichloropropane	594-20-7	0.25 U	0.25	5.8	1.22
06192	1,1-Dichloropropene	563-58-6	0.19 U	0.19	5.8	1.22
06192	cis-1,3-Dichloropropene	10061-01-5	0.23 U	0.23	5.8	1.22
06192	trans-1,3-Dichloropropene	10061-02-6	0.25 U	0.25	5.8	1.22
06192	Ethylbenzene	100-41-4	0.09 U	0.09	5.8	1.22
06192	Freon 113	76-13-1	0.16 U	0.16	5.8	1.22
06192	Freon 133a	75-88-7	0.72 U	0.72	7.2	1.22
06192	Hexachlorobutadiene	87-68-3	0.20 U	0.20	5.8	1.22
06192	2-Hexanone	591-78-6	2.3 U	2.3	12	1.22
06192	Isopropylbenzene	98-82-8	0.09 U	0.09	5.8	1.22
06192	p-Isopropyltoluene	99-87-6	0.16 U	0.16	5.8	1.22
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.30 U	0.30	5.8	1.22
06192	4-Methyl-2-pentanone	108-10-1	0.56 U	0.56	12	1.22
06192	Methylene Chloride	75-09-2	1.1 J	0.35	5.8	1.22
06192	n-Propylbenzene	103-65-1	0.10 U	0.10	5.8	1.22

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

Sample Description: SL-085-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5C-SB-2.5-3.0

LLI Sample # SW 6143354
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 15:03 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL085 SDG#: DE017-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.15 U	0.15	5.8	1.22
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	5.8	1.22
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.33 U	0.33	5.8	1.22
06192	Tetrachloroethene	127-18-4	0.29 U	0.29	5.8	1.22
06192	Toluene	108-88-3	0.12 U	0.12	5.8	1.22
06192	1,2,3-Trichlorobenzene	87-61-6	0.20 U	0.20	5.8	1.22
06192	1,2,4-Trichlorobenzene	120-82-1	0.26 U	0.26	5.8	1.22
06192	1,1,1-Trichloroethane	71-55-6	0.29 U	0.29	5.8	1.22
06192	1,1,2-Trichloroethane	79-00-5	0.39 U	0.39	5.8	1.22
06192	Trichloroethene	79-01-6	0.22 U	0.22	5.8	1.22
06192	Trichlorofluoromethane	75-69-4	0.42 U	0.42	5.8	1.22
06192	1,2,3-Trichloropropane	96-18-4	0.48 U	0.48	5.8	1.22
06192	1,2,4-Trimethylbenzene	95-63-6	0.58 U	0.58	5.8	1.22
06192	1,3,5-Trimethylbenzene	108-67-8	0.15 U	0.15	5.8	1.22
06192	Vinyl Chloride	75-01-4	0.29 U	0.29	5.8	1.22
06192	m+p-Xylene	179601-23-1	0.25 U	0.25	5.8	1.22
06192	o-Xylene	95-47-6	0.25 U	0.25	5.8	1.22
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	7.2 U	7.2	22	30.19
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	200	U 200	590	1
04688	Benzidine	92-87-5	1,400	U 1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U 200	590	1
04688	Benzyl alcohol	100-51-6	200	U 200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U 20	200	1
04688	Carbazole	86-74-8	20	U 20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U 40	200	1
04688	4-Chloroaniline	106-47-8	79	U 79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U 20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U 20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U 20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U 20	200	1
04688	2-Chlorophenol	95-57-8	20	U 20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U 40	200	1
04688	Dibenzofuran	132-64-9	20	U 20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U 20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U 20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U 20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U 20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U 40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U 40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U 200	590	1
04688	2,4-Dinitrophenol	51-28-5	790	U 790	2,400	1
04688	2,4-Dinitrotoluene	121-14-2	40	U 40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U 20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U 20	200	1

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

Sample Description: SL-085-SA5C-SB-2.5-3.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5C-SB-2.5-3.0

LLI Sample # SW 6143354
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 15:03 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL085 SDG#: DE017-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J 20	400	1
04688	Hexachlorobenzene	118-74-1	20	U 20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U 79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U 200	590	1
04688	Hexachloroethane	67-72-1	20	U 20	200	1
04688	Isophorone	78-59-1	20	U 20	200	1
04688	2-Methylphenol	95-48-7	40	U 40	200	1
04688	4-Methylphenol	106-44-5	40	U 40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	20	U 20	200	1
04688	3-Nitroaniline	99-09-2	40	U 40	200	1
04688	4-Nitroaniline	100-01-6	79	U 79	200	1
04688	Nitrobenzene	98-95-3	20	U 20	200	1
04688	2-Nitrophenol	88-75-5	20	U 20	200	1
04688	4-Nitrophenol	100-02-7	200	U 200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U 20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U 20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	200	U 200	590	1
04688	Phenol	108-95-2	20	U 20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U 20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U 40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U 40	200	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U 0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.40	U 0.40	2.0	1
10138	Anthracene	120-12-7	0.40	U 0.40	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.79	U 0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.88	J 0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.82	J 0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U 0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J 0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U 7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U 7.1	21	1
10138	Chrysene	218-01-9	1.1	J 0.40	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U 0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U 7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U 7.1	21	1
10138	Fluoranthene	206-44-0	0.79	U 0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U 0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U 0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U 0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U 0.79	2.0	1
10138	Naphthalene	91-20-3	0.79	U 0.79	2.0	1

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

Sample Description: SL-085-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5C-SB-2.5-3.0

LLI Sample # SW 6143354
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 15:03 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL085 SDG#: DE017-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM ug/kg ug/kg ug/kg						
10138	N-Nitrosodimethylamine	62-75-9	0.79 U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1 U	7.1	21	1
10138	Phenanthrene	85-01-8	0.79 U	0.79	2.0	1
10138	Pyrene	129-00-0	0.79 U	0.79	2.0	1
Perchlorate SW-846 6850 1/2007 ug/kg ug/kg ug/kg						
06557	Perchlorate in Soil LC/MS/MS	14797-73-0	2.5 U	2.5	5.9	1
Pesticides/PCBs SW-846 8082 ug/kg ug/kg ug/kg						
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2 U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39 U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.59 U	0.59	2.0	1
10225	PCB-1232	11141-16-5	0.62 U	0.62	2.0	1
10225	PCB-1242	53469-21-9	0.59 U	0.59	2.0	1
10225	PCB-1248	12672-29-6	0.39 U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39 U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.39 U	0.39	2.0	1
10225	PCB-1262	37324-23-5	0.39 U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39 U	0.39	2.0	1
Metals SW-846 6010B mg/kg mg/kg mg/kg						
01643	Aluminum	7429-90-5	22,500	5.92	23.5	1
07914	Boron	7440-42-8	10.3	1.05	5.89	1
01650	Calcium	7440-70-2	8,560	7.22	23.5	1
01654	Iron	7439-89-6	26,500	5.55	23.5	1
01656	Lithium	7439-93-2	23.2	0.26	2.4	1
01657	Magnesium	7439-95-4	4,110	2.99	11.8	1
06958	Manganese	7439-96-5	80.4	0.0918	0.589	1
10145	Phosphorus	7723-14-0	120	0.659	11.8	1
01662	Potassium	7440-09-7	1,130	21.2	58.9	1
01667	Sodium	7440-23-5	825	43.9	118	1
07968	Strontium	7440-24-6	44.2	0.0730	0.589	1
06969	Tin	7440-31-5	2.81 J	1.18	11.8	1
06970	Titanium	7440-32-6	1,230	0.895	2.35	2
10146	Zirconium	7440-67-7	3.74 J	0.989	5.89	1
SW-846 6020 mg/kg mg/kg mg/kg						
06124	Antimony	7440-36-0	0.170 J	0.0686	0.229	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.86	0.0686	0.457	2
06126	Barium	7440-39-3	197	0.123	0.457	2
06127	Beryllium	7440-41-7	0.870	0.0183	0.114	2
06128	Cadmium	7440-43-9	0.281	0.0412	0.114	2
06131	Chromium	7440-47-3	35.3	0.137	0.457	2

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

Sample Description: SL-085-SA5C-SB-2.5-3.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5C-SB-2.5-3.0

LLI Sample # SW 6143354
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 15:03 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL085 SDG#: DE017-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	16.2	0.0229	0.114	2
06133	Copper	7440-50-8	14.3	0.0755	0.457	2
06135	Lead	7439-92-1	12.4	0.0119	0.229	2
06138	Molybdenum	7439-98-7	0.524	0.0572	0.114	2
06139	Nickel	7440-02-0	32.2	0.114	0.457	2
06141	Selenium	7782-49-2	0.0845 J	0.0457	0.457	2
06142	Silver	7440-22-4	0.0697 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.437	0.0343	0.114	2
06148	Vanadium	7440-62-2	68.4	0.0252	0.114	2
06149	Zinc	7440-66-6	73.1	0.640	3.43	2
SW-846 7471A						
			mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0034 U	0.0034	0.118	1
Wet Chemistry						
		EPA 300.0	ug/kg	ug/kg	ug/kg	
07332	Fluoride by IC (solid)	16984-48-8	12,200	950	1,200	1
EPA 314.0						
			ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.7 U	10.7	35.7	1
SW-846 7199						
			ug/kg	ug/kg	ug/kg	
05892	Hexavalent Chromium by IC	18540-29-9	380 J	240	1,200	1
ASTM D1498						
			mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	436	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.98	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	15.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-085-SA5C-SB-3.0.

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

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

Sample Description: SL-085-SA5C-SB-2.5-3.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5C-SB-2.5-3.0

LLI Sample # SW 6143354
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 15:03 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL085 SDG#: DE017-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103232AA	11/19/2010 17:03	Kenneth L Boley Jr	1.22
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103232AA	11/19/2010 18:29	Jason M Long	30.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032122995	11/17/2010 22:44	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201032122995	11/17/2010 22:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201032122995	11/17/2010 22:47	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032122995	11/17/2010 22:40	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10323SLC026	12/03/2010 15:56	Brian K Graham	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10322SLI026	12/02/2010 03:27	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10322SLI026	11/19/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
06557	Perchlorate in Soil LC/MS/MS	SW-846 6850 1/2007	1	103240013A	11/22/2010 16:07	Richard A Shober	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103260008A	12/01/2010 22:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103240013A	11/22/2010 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:34	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 18:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 18:37	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 18:37	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:34	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 18:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 18:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:34	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:34	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:34	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:34	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:34	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:37	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:34	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 11:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/24/2010 09:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 11:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:59	Choon Y Tian	2

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

Sample Description: SL-085-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5C-SB-2.5-3.0

LLI Sample # SW 6143354
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 15:03 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

SL085 SDG#: DE017-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010	11:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010	11:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010	11:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010	11:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010	06:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010	21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010	10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010	21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010	01:15	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10336336201A	12/04/2010	01:26	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10330330201B	11/29/2010	16:42	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10335243201A	12/02/2010	11:22	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10336336201A	12/02/2010	12:45	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10330330201B	11/26/2010	19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103A	11/18/2010	11:40	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10322039403A	11/18/2010	11:40	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10335243201A	12/01/2010	19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10327162401B	11/24/2010	05:21	William C Schwebel	1

Sample Description: TB-111610 Water
 SSFL Area IV Collocated Soil Sampling
 TB-111610

LLI Sample # WW 6143355
 LLI Group # 1221705
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 15:30

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

083TB SDG#: DE017-03TB

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

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

Sample Description: TB-111610 Water
 SSFL Area IV Collocated Soil Sampling
 TB-111610

LLI Sample # WW 6143355
 LLI Group # 1221705
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 15:30

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

083TB SDG#: DE017-03TB

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103263AA	11/22/2010 06:21	Holly Berry	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103231AA	11/19/2010 12:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103231AA	11/19/2010 12:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103263AA	11/22/2010 06:21	Holly Berry	1

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

Sample Description: EB08-SA5C-111610 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA5C-111610

LLI Sample # WW 6143356
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 12:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

083EB SDG#: DE017-04EB*

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

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

Sample Description: EB08-SA5C-111610 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA5C-111610

LLI Sample # WW 6143356
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 12:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

083EB SDG#: DE017-04EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	21	U	21	62	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1

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

Sample Description: EB08-SA5C-111610 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA5C-111610

LLI Sample # WW 6143356
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 12:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

083EB SDG#: DE017-04EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l		ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	10	U	10	31	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16	1
04678	Phenol	108-95-2	1	U	1	5	1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l		ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050	1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050	1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050	1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050	1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050	1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050	1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050	1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050	1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	1.0	1
10137	Di-n-butylphthalate	84-74-2	0.20	J	0.050	1.0	1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050	1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050	1
10137	Diethylphthalate	84-66-2	0.073	J	0.050	1.0	1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.33	J	0.050	1.0	1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050	1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050	1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.050	1

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

Sample Description: EB08-SA5C-111610 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA5C-111610

LLI Sample # WW 6143356
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 12:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

083EB SDG#: DE017-04EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
10137	2-Methylnaphthalene	91-57-6	0.010 U	0.010	0.050	1
10137	Naphthalene	91-20-3	0.048 J	0.010	0.050	1
10137	N-Nitrosodimethylamine	62-75-9	0.010 U	0.010	0.050	1
10137	Di-n-octylphthalate	117-84-0	0.050 U	0.050	1.0	1
10137	Phenanthrene	85-01-8	0.010 U	0.010	0.050	1
10137	Pyrene	129-00-0	0.010 U	0.010	0.050	1

The QC limits for n-nitrosodimethylamine and dimethylphthalate are advisory only until sufficient data points can be obtained to calculate statistical limits.

The following compounds were detected in the method blank at the respective concentrations of:

di-n-butylphthalate .052 ug/l
 bis(2-ethylhexyl)phthalate .12 ug/l

These blank values were not subtracted from the analytical results.

Pesticides/PCBs	SW-846 8082	ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.51
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.51
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.51
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.51
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.51
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.51
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.51
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.51
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.51
10227	PCB-1260	11096-82-5	0.10 U	0.10	0.51
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.51
10227	PCB-1268	11100-14-4	0.16 U	0.16	0.51

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	SW-846 6010B	mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200
01754	Iron	7439-89-6	0.0545 J	0.0522	0.200
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100
01762	Potassium	7440-09-7	0.239 U	0.239	0.500
01767	Sodium	7440-23-5	0.433 U	0.433	1.00
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500

	SW-846 6020	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010

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

Sample Description: EB08-SA5C-111610 Water
 SSFL Area IV Collocated Soil Sampling
 EB08-SA5C-111610

LLI Sample # WW 6143356
 LLI Group # 1221705
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 12:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

083EB SDG#: DE017-04EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/l	mg/l	mg/l	
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000055 J	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00026 J	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000056 U	0.000056	0.00020	1
Wet Chemistry						
		EPA 300.0	mg/l	mg/l	mg/l	
01504	Fluoride	16984-48-8	0.080 U	0.080	0.10	1
		EPA 314.0	ug/l	ug/l	ug/l	
06019	Perchlorate	14797-73-0	0.70 U	0.70	2.0	1
		SW-846 7199	ug/l	ug/l	ug/l	
06467	Hexavalent Chromium (water)	18540-29-9	5.0 U	5.0	10.0	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103263AA	11/22/2010 06:42	Holly Berry	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103231AA	11/19/2010 12:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103231AA	11/19/2010 12:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103263AA	11/22/2010 06:42	Holly Berry	1
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10324WAF026	12/03/2010 00:27	Ryan P Byrne	1

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

Sample Description: EB08-SA5C-111610 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA5C-111610

LLI Sample # WW 6143356
LLI Group # 1221705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2010 12:35 by PH

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

Submitted: 11/17/2010 09:15

Reported: 12/08/2010 14:44

083EB SDG#: DE017-04EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10326WAC026	12/03/2010 00:13	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10324WAF026	11/21/2010 08:50	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10326WAC026	11/22/2010 15:00	Timothy J Attenberger	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103260023A	11/25/2010 05:11	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	103260023A	11/23/2010 02:17	Roman Kuropatkin	1
01743	Aluminum	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	103271848002	11/28/2010 22:05	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103236050002D	11/29/2010 14:25	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103236050002C	11/29/2010 14:25	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103236050002B	11/29/2010 14:25	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103236050002A	11/29/2010 14:25	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103225713003	11/19/2010 06:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103271848002	11/23/2010 20:30	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103236050002	11/22/2010 08:50	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103225713003	11/18/2010 16:10	Nelli S Markaryan	1
01504	Fluoride	EPA 300.0	1	10327196902B	11/24/2010 10:35	Ashley M Adams	1
06019	Perchlorate	EPA 314.0	1	10322621701A	11/19/2010 11:49	William L Hamaker Jr	1
06467	Hexavalent Chromium (water)	SW-846 7199	1	10321621301A	11/17/2010 10:33	William L Hamaker Jr	1

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B103232AA	Sample number(s): 6143353-6143354								
Acetone	6.7	U 6.7	8.0	ug/kg	179	179	32-209	0	30
Benzene	0.10	U 0.10	4.0	ug/kg	101	99	80-120	2	30
Bromobenzene	0.13	U 0.13	4.0	ug/kg	97	95	79-120	2	30
Bromochloromethane	0.33	U 0.33	4.0	ug/kg	130*	127*	79-124	2	30
Bromodichloromethane	0.08	U 0.08	4.0	ug/kg	96	95	78-120	1	30
Bromoform	0.40	U 0.40	4.0	ug/kg	86	85	70-120	1	30
Bromomethane	0.25	U 0.25	4.0	ug/kg	90	89	32-162	2	30
2-Butanone	1.2	U 1.2	8.0	ug/kg	120	120	46-153	0	30
n-Butylbenzene	0.12	U 0.12	4.0	ug/kg	108	104	72-120	4	30
sec-Butylbenzene	0.06	U 0.06	4.0	ug/kg	109	106	75-120	3	30
tert-Butylbenzene	0.16	U 0.16	4.0	ug/kg	96	95	75-120	2	30
Carbon Tetrachloride	0.14	U 0.14	4.0	ug/kg	90	88	69-122	2	30
Chlorobenzene	0.11	U 0.11	4.0	ug/kg	98	96	80-120	2	30
Chloroethane	0.13	U 0.13	4.0	ug/kg	91	88	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U 0.30	4.0	ug/kg	96	94	43-146	2	30
Chloroform	0.12	U 0.12	4.0	ug/kg	101	98	80-120	3	30
Chloromethane	0.33	U 0.33	4.0	ug/kg	88	86	54-132	3	30
2-Chlorotoluene	0.14	U 0.14	4.0	ug/kg	101	99	78-120	2	30
4-Chlorotoluene	0.14	U 0.14	4.0	ug/kg	102	99	79-120	3	30
Chlorotrifluoroethene	0.50	U 0.50	5.0	ug/kg	108	102	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70	U 0.70	4.0	ug/kg	98	99	58-120	1	30
Dibromochloromethane	0.20	U 0.20	4.0	ug/kg	93	92	77-120	1	30
1,2-Dibromoethane	0.17	U 0.17	4.0	ug/kg	96	96	80-120	0	30
Dibromomethane	0.24	U 0.24	4.0	ug/kg	99	97	80-120	2	30
1,2-Dichlorobenzene	0.09	U 0.09	4.0	ug/kg	98	95	79-120	3	30
1,3-Dichlorobenzene	0.12	U 0.12	4.0	ug/kg	98	95	78-120	2	30
1,4-Dichlorobenzene	0.16	U 0.16	4.0	ug/kg	99	95	79-120	3	30
Dichlorodifluoromethane	0.12	U 0.12	4.0	ug/kg	68	65	20-120	3	30
1,1-Dichloroethane	0.10	U 0.10	4.0	ug/kg	100	99	80-120	1	30
1,2-Dichloroethane	0.15	U 0.15	4.0	ug/kg	99	97	71-129	2	30
1,1-Dichloroethene	0.39	U 0.39	4.0	ug/kg	98	95	73-123	3	30
cis-1,2-Dichloroethene	0.19	U 0.19	4.0	ug/kg	97	95	80-120	2	30
trans-1,2-Dichloroethene	0.12	U 0.12	4.0	ug/kg	86	90	79-120	4	30
1,2-Dichloropropane	0.17	U 0.17	4.0	ug/kg	101	99	80-120	1	30
1,3-Dichloropropane	0.08	U 0.08	4.0	ug/kg	101	102	80-120	0	30
2,2-Dichloropropane	0.17	U 0.17	4.0	ug/kg	79	79	72-123	1	30
1,1-Dichloropropene	0.13	U 0.13	4.0	ug/kg	98	97	77-120	2	30
cis-1,3-Dichloropropene	0.16	U 0.16	4.0	ug/kg	91	89	80-120	2	30
trans-1,3-Dichloropropene	0.17	U 0.17	4.0	ug/kg	88	86	77-120	2	30
Ethylbenzene	0.06	U 0.06	4.0	ug/kg	101	99	80-120	2	30
Freon 113	0.11	U 0.11	4.0	ug/kg	102	97	61-126	5	30
Freon 133a	0.50	U 0.50	5.0	ug/kg	89	85	78-120	5	30
Hexachlorobutadiene	0.14	U 0.14	4.0	ug/kg	97	95	57-120	3	30
2-Hexanone	1.6	U 1.6	8.0	ug/kg	106	107	45-155	1	30
Isopropylbenzene	0.06	U 0.06	4.0	ug/kg	98	95	76-120	3	30
p-Isopropyltoluene	0.11	U 0.11	4.0	ug/kg	106	101	75-120	4	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

Analysis Name	Blank		Blank		Report	LCS	LCSD	LCS/LCSD	RPD	RPD Max
	Result	U	MDL**	LOQ						
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	88	92	74-121	4	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	100	98	61-134	2	30
Methylene Chloride	0.24	U	0.24	4.0	ug/kg	96	94	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	113	110	77-120	3	30
Styrene	0.10	U	0.10	4.0	ug/kg	95	93	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	92	90	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	108	105	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	91	90	77-120	1	30
Toluene	0.08	U	0.08	4.0	ug/kg	99	97	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	92	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	92	89	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	92	90	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	96	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97	94	80-120	4	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96	92	58-133	4	30
1,2,3-Trimethylpropane	0.33	U	0.33	4.0	ug/kg	103	101	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	106	104	79-120	2	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105	102	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	84	82	53-120	3	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	97	94	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	94	92	80-120	2	30
Batch number: E103231AA Sample number(s): 6143355-6143356										
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	98		60-132		
Batch number: E103232AA Sample number(s): 6143353-6143354										
1,4-Dioxane	5.0	U	5.0	15	ug/kg	97	97	70-130	0	30
Batch number: Y103263AA Sample number(s): 6143355-6143356										
Acetone	6	U	6.	20	ug/l	192	193	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	95	94	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	105	105	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	93	90	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	91	89	80-120	2	30
Bromoform	1	U	1.	5	ug/l	90	99	61-120	10	30
Bromomethane	1	U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	119	118	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	100	99	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	107	107	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	99	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	93	90	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	95	90	49-129	6	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	107	107	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	96	94	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	91	87	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	107	103	80-120	4	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	119	112	38-136	6	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	112	108	66-120	3	30
Dibromochloromethane	1	U	1.	5	ug/l	94	92	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	101	99	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	96	92	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	95	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	100	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	70	68	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	96	79-120	2	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dichloroethane	1 U	1.	5	ug/l	93	91	70-130	2	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	107	106	74-123	1	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	95	80-120	2	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	94	80-120	3	30
1,2-Dichloropropane	1 U	1.	5	ug/l	94	92	78-120	2	30
1,3-Dichloropropane	1 U	1.	5	ug/l	99	98	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	86	84	77-124	2	30
1,1-Dichloropropene	1 U	1.	5	ug/l	95	94	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	87	85	80-120	2	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	90	89	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	98	96	79-120	2	30
Freon 113	2 U	2.	10	ug/l	113	114	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	101	93	77-120	8	30
Hexachlorobutadiene	2 U	2.	5	ug/l	98	95	58-120	3	30
2-Hexanone	3 U	3.	10	ug/l	116	114	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	97	95	77-120	2	30
p-Isopropyltoluene	1 U	1.	5	ug/l	106	103	80-120	3	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	94	76-120	1	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	98	93	70-121	5	30
Methylene Chloride	2 U	2.	5	ug/l	86	82	80-120	5	30
n-Propylbenzene	1 U	1.	5	ug/l	110	108	80-120	2	30
Styrene	1 U	1.	5	ug/l	98	107	80-120	8	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	97	94	80-120	3	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	110	109	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	96	94	80-121	2	30
Toluene	0.7 U	0.7	5	ug/l	98	98	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	100	99	65-120	1	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	99	98	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	95	94	75-127	1	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	99	97	80-120	3	30
Trichloroethene	1 U	1.	5	ug/l	94	91	80-120	4	30
Trichlorofluoromethane	2 U	2.	5	ug/l	94	92	64-129	1	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	111	109	80-120	2	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	106	106	74-120	0	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	105	102	75-120	3	30
Vinyl Chloride	1 U	1.	5	ug/l	83	82	65-125	0	30
m+p-Xylene	0.8 U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8 U	0.8	5	ug/l	95	92	80-120	3	30

Batch number: 10322SLI026

Sample number(s): 6143353-6143354

Acenaphthene	0.67 U	0.67	1.7	ug/kg	95		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	88		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	96		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	114		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	124		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	105		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	123		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	96		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	109		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	102		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	108		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	105		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	102		70-130		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	100		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	106		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	94		72-120		

*- Outside of specification

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	88		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	85		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	111		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	94		56-121		
Batch number: 10323SLC026 Sample number(s): 6143353-6143354									
Aniline	170 U	170.	500	ug/kg	64		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	33		15-121		
Benzoic acid	170 U	170.	500	ug/kg	95		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	97		79-117		
Carbazole	17 U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	96		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	32		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	84		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	92		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	98		79-110		
Dibenzofuran	17 U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	69		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	110		70-130		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	65		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	63		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	94		77-111		
bis(2-Ethylhexyl)phthalate	17 U	17.	330	ug/kg	102		75-117		
Hexachlorobenzene	17 U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	86		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	88		68-105		
Isophorone	17 U	17.	170	ug/kg	87		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	85		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	67		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	87		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	83		56-118		

*- Outside of specification

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	88		63-107		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170 U	170.	500	ug/kg	90		35-106		
Phenol	17 U	17.	170	ug/kg	91		58-112		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33 U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	98		78-111		

Batch number: 10324WAF026

Sample number(s): 6143356

Aniline	1 U	1.	5	ug/l	64	68	49-101	7	30
Benzidine	20 U	20.	60	ug/l	50	57	20-109	14	30
Benzoic acid	6 U	6.	15	ug/l	40	23	10-69	54*	30
Benzyl alcohol	5 U	5.	15	ug/l	77	79	66-97	2	30
4-Bromophenyl-phenylether	1 U	1.	5	ug/l	94	97	82-117	3	30
Carbazole	1 U	1.	5	ug/l	96	99	81-114	3	30
4-Chloro-3-methylphenol	1 U	1.	5	ug/l	94	95	70-123	2	30
4-Chloroaniline	1 U	1.	5	ug/l	51	67	42-124	27	30
bis(2-Chloroethoxy)methane	1 U	1.	5	ug/l	92	93	74-124	2	30
bis(2-Chloroethyl)ether	1 U	1.	5	ug/l	86	89	77-108	3	30
bis(2-Chloroisopropyl)ether	1 U	1.	5	ug/l	82	85	62-127	3	30
2-Chloronaphthalene	2 U	2.	5	ug/l	101	94	54-132	7	30
2-Chlorophenol	1 U	1.	5	ug/l	86	90	77-108	5	30
4-Chlorophenyl-phenylether	2 U	2.	5	ug/l	98	100	82-111	3	30
Dibenzofuran	1 U	1.	5	ug/l	97	98	83-108	1	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	86	83	67-108	3	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	84	86	63-110	2	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	85	87	65-113	2	30
3,3'-Dichlorobenzidine	2 U	2.	5	ug/l	63	73	49-111	15	30
2,4-Dichlorophenol	1 U	1.	5	ug/l	96	95	80-109	0	30
2,4-Dimethylphenol	3 U	3.	10	ug/l	93	95	72-110	2	30
3,5-Dimethylphenol	3 U	3.	10	ug/l	106	108	70-130	2	30
4,6-Dinitro-2-methylphenol	5 U	5.	15	ug/l	85	89	78-119	5	30
2,4-Dinitrophenol	10 U	10.	30	ug/l	78	82	64-120	5	30
2,4-Dinitrotoluene	1 U	1.	5	ug/l	98	99	81-115	1	30
2,6-Dinitrotoluene	1 U	1.	5	ug/l	94	98	85-115	4	30
1,2-Diphenylhydrazine	1 U	1.	5	ug/l	92	96	78-116	4	30
Hexachlorobenzene	1 U	1.	5	ug/l	96	98	81-118	2	30
Hexachlorobutadiene	1 U	1.	5	ug/l	89	85	57-124	5	30
Hexachlorocyclopentadiene	5 U	5.	15	ug/l	67	66	10-118	1	30
Hexachloroethane	1 U	1.	5	ug/l	85	82	52-113	3	30
Isophorone	1 U	1.	5	ug/l	91	92	74-117	1	30
2-Methylphenol	1 U	1.	5	ug/l	79	80	64-101	1	30
4-Methylphenol	2 U	2.	5	ug/l	71	72	61-103	2	30
2-Nitroaniline	1 U	1.	5	ug/l	92	97	83-116	5	30
3-Nitroaniline	1 U	1.	5	ug/l	87	94	74-113	7	30
4-Nitroaniline	1 U	1.	5	ug/l	68	73	59-100	8	30
Nitrobenzene	1 U	1.	5	ug/l	90	92	75-109	2	30
2-Nitrophenol	1 U	1.	5	ug/l	88	96	86-120	9	30
4-Nitrophenol	10 U	10.	30	ug/l	41	38	16-78	7	30
N-Nitroso-di-n-propylamine	1 U	1.	5	ug/l	85	89	69-110	5	30
N-Nitrosodiphenylamine	2 U	2.	5	ug/l	93	95	67-136	2	30
Pentachlorophenol	3 U	3.	15	ug/l	95	97	53-110	2	30
Phenol	1 U	1.	5	ug/l	41	40	29-67	3	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	89	87	71-112	2	30
2,4,5-Trichlorophenol	1 U	1.	5	ug/l	93	98	79-107	6	30
2,4,6-Trichlorophenol	1 U	1.	5	ug/l	93	97	81-113	4	30

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>	
Batch number: 10326WAC026										
Sample number(s): 6143356										
Acenaphthene	0.010 U	0.010	0.050	ug/l	89	91	74-109	2	30	
Acenaphthylene	0.010 U	0.010	0.050	ug/l	89	90	70-110	1	30	
Anthracene	0.010 U	0.010	0.050	ug/l	93	97	66-111	4	30	
Benzo(a)anthracene	0.010 U	0.010	0.050	ug/l	95	97	72-114	3	30	
Benzo(a)pyrene	0.010 U	0.010	0.050	ug/l	109	111	64-115	1	30	
Benzo(b)fluoranthene	0.010 U	0.010	0.050	ug/l	118	121	69-123	3	30	
Benzo(g,h,i)perylene	0.010 U	0.010	0.050	ug/l	97	95	68-125	2	30	
Benzo(k)fluoranthene	0.010 U	0.010	0.050	ug/l	116	118	72-122	2	30	
Butylbenzylphthalate	0.050 U	0.050	1.0	ug/l	75	75	70-130	1	30	
Di-n-butylphthalate	0.052 J	0.050	1.0	ug/l	96	99	70-130	2	30	
Chrysene	0.010 U	0.010	0.050	ug/l	96	98	76-116	2	30	
Dibenz(a,h)anthracene	0.010 U	0.010	0.050	ug/l	96	93	71-125	3	30	
Diethylphthalate	0.050 U	0.050	1.0	ug/l	89	92	70-130	4	30	
Dimethylphthalate	0.050 U	0.050	1.0	ug/l	68*	70	70-130	3	30	
Bis(2-Ethylhexyl)phthalate	0.12 J	0.050	1.0	ug/l	103	90	70-130	13	30	
Fluoranthene	0.010 U	0.010	0.050	ug/l	94	96	75-116	2	30	
Fluorene	0.010 U	0.010	0.050	ug/l	98	101	75-114	3	30	
Indeno(1,2,3-cd)pyrene	0.010 U	0.010	0.050	ug/l	97	96	69-124	1	30	
1-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	95	96	71-117	1	30	
2-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	84	85	75-115	2	30	
Naphthalene	0.010 U	0.010	0.050	ug/l	90	90	72-109	0	30	
N-Nitrosodimethylamine	0.010 U	0.010	0.050	ug/l	54*	51*	70-130	6	30	
Di-n-octylphthalate	0.050 U	0.050	1.0	ug/l	112	99	70-130	13	30	
Phenanthrene	0.010 U	0.010	0.050	ug/l	93	96	76-111	4	30	
Pyrene	0.010 U	0.010	0.050	ug/l	95	97	69-118	1	30	
Batch number: 103240013A										
Sample number(s): 6143354										
Perchlorate in Soil LC/MS/MS	2.1 U	2.1	5.0	ug/kg	98		70-130			
Batch number: 103260008A										
Sample number(s): 6143353-6143354										
Aroclor 5432	1.0 U	1.0	3.3	ug/kg						
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	98	88	75-125	11	30	
Aroclor 5460	1.0 U	1.0	3.3	ug/kg						
PCB-1016	0.33 U	0.33	1.7	ug/kg	100		72-120			
PCB-1221	0.50 U	0.50	1.7	ug/kg						
PCB-1232	0.52 U	0.52	1.7	ug/kg						
PCB-1242	0.50 U	0.50	1.7	ug/kg						
PCB-1248	0.33 U	0.33	1.7	ug/kg						
PCB-1254	0.33 U	0.33	1.7	ug/kg						
PCB-1260	0.33 U	0.33	1.7	ug/kg	124		65-137			
PCB-1262	0.33 U	0.33	1.7	ug/kg						
PCB-1268	0.33 U	0.33	1.7	ug/kg						
Batch number: 103260023A										
Sample number(s): 6143356										
Aroclor 5432	0.10 U	0.10	0.50	ug/l						
Aroclor 5442	0.10 U	0.10	0.50	ug/l	60*	66*	75-125	10	30	
Aroclor 5460	0.10 U	0.10	0.50	ug/l						
PCB-1016	0.10 U	0.10	0.50	ug/l	102	100	68-119	2	30	
PCB-1221	0.10 U	0.10	0.50	ug/l						
PCB-1232	0.20 U	0.20	0.50	ug/l						
PCB-1242	0.10 U	0.10	0.50	ug/l						
PCB-1248	0.10 U	0.10	0.50	ug/l						
PCB-1254	0.10 U	0.10	0.50	ug/l						
PCB-1260	0.10 U	0.10	0.50	ug/l	104	102	68-121	2	30	
PCB-1262	0.20 U	0.20	0.50	ug/l						
PCB-1268	0.16 U	0.16	0.50	ug/l						

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 103221026002A	Sample number(s): 6143353-6143354								
Antimony	0.0600 U	0.0600	0.200	mg/kg	108		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	108		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	103		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	111		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	104		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	103		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	118		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	103		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	106		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	102		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	91		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	106		78-122		
Batch number: 103221026002B	Sample number(s): 6143353-6143354								
Selenium	0.0400 U	0.0400	0.400	mg/kg	107		79-122		
Batch number: 103221026002C	Sample number(s): 6143353-6143354								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 103221026002D	Sample number(s): 6143353-6143354								
Barium	0.108 U	0.108	0.400	mg/kg	109		79-121		
Batch number: 103225708004	Sample number(s): 6143353-6143354								
Aluminum	7.99 J	5.03	20.0	mg/kg	85		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	92		78-110		
Calcium	11.5 J	6.13	20.0	mg/kg	92		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	89		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	109		80-120		
Magnesium	3.21 J	2.54	10.0	mg/kg	92		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	96		81-119		
Phosphorus	1.59 J	0.560	10.0	mg/kg	108		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3 U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	98		79-121		
Tin	1.21 J	1.00	10.0	mg/kg	99		90-114		
Zirconium	0.840 U	0.840	5.00	mg/kg	107		80-120		
Batch number: 103225711004	Sample number(s): 6143353-6143354								
Mercury	0.0028 U	0.0028	0.0974	mg/kg	97		88-123		
Batch number: 103225713003	Sample number(s): 6143356								
Mercury	0.000056 U	0.00005	0.00020	mg/l	88	92	80-120	4	20
Batch number: 103236050002A	Sample number(s): 6143356								
Antimony	0.00030 U	0.00030	0.0010	mg/l	107	109	87-110	2	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	97	104	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	109	104	90-112	5	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	102	94	90-114	9	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	102	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	104	100	80-120	4	20
Copper	0.00038 U	0.00038	0.0020	mg/l	105	102	90-113	3	20
Lead	0.000052 U	0.00005	0.0010	mg/l	103	98	90-115	5	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	102	90-113	5	20
Silver	0.000080 U	0.00008	0.00050	mg/l	109	104	90-115	4	20

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Thallium	0.00015 U	0.00015	0.00050	mg/l	103	100	89-116	2	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	101	102	80-120	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	107	106	80-120	1	20
Batch number: 103236050002B	Sample number(s): 6143356								
Selenium	0.00025 U	0.00025	0.0020	mg/l	101	106	85-114	5	20
Batch number: 103236050002C	Sample number(s): 6143356								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	105	80-120	0	20
Batch number: 103236050002D	Sample number(s): 6143356								
Barium	0.00038 U	0.00038	0.0020	mg/l	101	104	88-113	3	20
Batch number: 103265708002	Sample number(s): 6143353-6143354								
Titanium	0.362 U	0.362	0.952	mg/kg	87		80-120		
Batch number: 103271848002	Sample number(s): 6143356								
Aluminum	0.0834 U	0.0834	0.200	mg/l	108	107	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	93	93	90-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	101	102	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	100	101	90-112	1	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	99	99	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	99	100	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	99	100	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	100	100	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	99	99	85-115	0	20
Sodium	0.433 U	0.433	1.00	mg/l	98	98	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	100	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	98	98	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	99	100	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	100	102	80-120	2	20
Batch number: 10321621301A	Sample number(s): 6143356								
Hexavalent Chromium (water)	5.0 U	5.0	10.0	ug/l	98		90-110		
Batch number: 10322621701A	Sample number(s): 6143356								
Perchlorate	0.70 U	0.70	2.0	ug/l	99	102	84-115	2	20
Batch number: 10327196902B	Sample number(s): 6143356								
Fluoride	0.080 U	0.080	0.10	mg/l	107	105	90-110	1	20
Batch number: 10330330201B	Sample number(s): 6143353-6143354								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	115		85-115		
Batch number: 10335243201A	Sample number(s): 6143353-6143354								
Hexavalent Chromium by IC	200 U	200.	1,000	ug/kg	97		80-120		
Batch number: 10336336201A	Sample number(s): 6143353-6143354								
Fluoride by IC (solid)	800 U	800.	1,000	ug/kg	108		90-110		
Batch number: 10322039403A	Sample number(s): 6143353-6143354								
pH					101		95-105		
Batch number: 10322182103A	Sample number(s): 6143353-6143354								
Oxidation Reduction Potential					98		98-102		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10327162401B	Sample number(s): 6143353-6143354				100		80-120		
Moisture CDM									

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103232AA	Sample number(s): 6143353-6143354 UNSPK: P144589								
Acetone	188		15-210						
Benzene	103		55-143						
Bromobenzene	95		43-139						
Bromochloromethane	127		60-137						
Bromodichloromethane	98		53-136						
Bromoform	82		38-124						
Bromomethane	98		42-168						
2-Butanone	113		37-163						
n-Butylbenzene	105		30-146						
sec-Butylbenzene	108		33-157						
tert-Butylbenzene	96		41-152						
Carbon Tetrachloride	96		45-153						
Chlorobenzene	97		49-135						
Chloroethane	99		39-152						
2-Chloroethyl Vinyl Ether	82		32-139						
Chloroform	102		61-142						
Chloromethane	98		51-163						
2-Chlorotoluene	100		42-146						
4-Chlorotoluene	100		39-145						
1,2-Dibromo-3-chloropropane	86		30-139						
Dibromochloromethane	93		51-128						
1,2-Dibromoethane	92		54-129						
Dibromomethane	94		57-130						
1,2-Dichlorobenzene	94		36-133						
1,3-Dichlorobenzene	96		34-134						
1,4-Dichlorobenzene	94		35-136						
Dichlorodifluoromethane	77		26-151						
1,1-Dichloroethane	103		63-142						
1,2-Dichloroethane	98		68-131						
1,1-Dichloroethene	105		61-149						
cis-1,2-Dichloroethene	97		60-136						
trans-1,2-Dichloroethene	86		59-142						
1,2-Dichloropropane	102		62-135						
1,3-Dichloropropane	99		58-129						
2,2-Dichloropropane	81		53-147						
1,1-Dichloropropene	103		54-145						
cis-1,3-Dichloropropene	89		51-131						
trans-1,3-Dichloropropene	85		49-129						
Ethylbenzene	102		44-141						
Freon 113	119		56-156						
Hexachlorobutadiene	91		10-155						
2-Hexanone	102		32-160						

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Isopropylbenzene	97		38-144						
p-Isopropyltoluene	103		29-152						
Methyl Tertiary Butyl Ether	80		55-129						
4-Methyl-2-pentanone	87		46-139						
Methylene Chloride	110		61-141						
n-Propylbenzene	112		39-157						
Styrene	94		35-134						
1,1,1,2-Tetrachloroethane	93		52-130						
1,1,2,2-Tetrachloroethane	101		40-152						
Tetrachloroethene	92		42-149						
Toluene	101		50-146						
1,2,3-Trichlorobenzene	85		10-140						
1,2,4-Trichlorobenzene	83		10-136						
1,1,1-Trichloroethane	95		64-142						
1,1,2-Trichloroethane	94		54-139						
Trichloroethene	98		53-144						
Trichlorofluoromethane	109		47-163						
1,2,3-Trichloropropane	95		45-154						
1,2,4-Trimethylbenzene	104		37-149						
1,3,5-Trimethylbenzene	103		38-150						
Vinyl Chloride	91		50-154						
m+p-Xylene	96		44-137						
o-Xylene	93		42-137						

 Batch number: E103231AA Sample number(s): 6143355-6143356 UNSPK: P144810
 1,4-Dioxane 104 (2) 149 (2) 50-150 8 30

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Acenaphthene	93	89	63-105	4	30				
Acenaphthylene	83	82	55-126	1	30				
Anthracene	89	89	46-136	0	30				
Benzo(a)anthracene	92	92	39-144	0	30				
Benzo(a)pyrene	104	103	34-156	0	30				
Benzo(b)fluoranthene	112	109	43-155	3	30				
Benzo(g,h,i)perylene	73	73	33-141	1	30				
Benzo(k)fluoranthene	114	116	42-144	2	30				
Butylbenzylphthalate	88	90	73-140	2	30				
Di-n-butylphthalate	100	103	78-160	3	30				
Chrysene	91	91	29-156	0	30				
Dibenz(a,h)anthracene	76	80	41-130	4	30				
Diethylphthalate	96	98	87-131	1	30				
Dimethylphthalate	96	95	74-118	0	30				
Fluoranthene	88	89	26-166	1	30				
Fluorene	96	96	45-121	1	30				
Indeno(1,2,3-cd)pyrene	80	75	21-143	7	30				
1-Methylnaphthalene	89	87	72-123	3	30				
2-Methylnaphthalene	80	78	28-121	3	30				
Naphthalene	86	81	61-102	6	30				
N-Nitrosodimethylamine	85	83	48-113	2	30				
Di-n-octylphthalate	109	111	40-192	1	30				
Phenanthrene	87	88	12-165	1	30				
Pyrene	86	85	15-153	1	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: 10323SLC026	Sample number(s): 6143353-6143354 UNSPK: P144589							
Aniline	57	62	14-114	9	30			
Benizidine	21*	0*	35-141	200*	30			
Benzoic acid	32	36	10-173	12	30			
Benzyl alcohol	84	95	55-123	12	30			
4-Bromophenyl-phenylether	91	97	67-129	6	30			
Carbazole	92	96	64-120	4	30			
4-Chloro-3-methylphenol	90	95	53-130	6	30			
4-Chloroaniline	60	64	23-95	5	30			
bis(2-Chloroethoxy)methane	83	90	54-117	9	30			
bis(2-Chloroethyl)ether	81	88	60-116	9	30			
bis(2-Chloroisopropyl)ether	71	79	55-142	10	30			
2-Chloronaphthalene	85	92	50-141	8	30			
2-Chlorophenol	87	95	73-121	8	30			
4-Chlorophenyl-phenylether	94	101	64-119	7	30			
Dibenzofuran	92	97	71-112	6	30			
1,2-Dichlorobenzene	79	87	66-108	10	30			
1,3-Dichlorobenzene	79	88	63-109	11	30			
1,4-Dichlorobenzene	83	91	53-113	9	30			
3,3'-Dichlorobenzidine	58	69	25-123	18	30			
2,4-Dichlorophenol	91	99	78-117	8	30			
2,4-Dimethylphenol	88	95	56-130	8	30			
3,5-Dimethylphenol	101	108	70-130	7	30			
4,6-Dinitro-2-methylphenol	63	75	10-148	17	30			
2,4-Dinitrophenol	44	51	20-143	16	30			
2,4-Dinitrotoluene	93	95	57-114	2	30			
2,6-Dinitrotoluene	90	97	69-123	8	30			
1,2-Diphenylhydrazine	85	92	71-129	7	30			
bis(2-Ethylhexyl)phthalate	96	104	63-122	8	30			
Hexachlorobenzene	91	96	61-111	5	30			
Hexachlorobutadiene	82	90	62-120	9	30			
Hexachlorocyclopentadiene	80	75	10-153	7	30			
Hexachloroethane	77	84	57-109	8	30			
Isophorone	79	87	51-118	9	30			
2-Methylphenol	85	92	47-142	8	30			
4-Methylphenol	82	89	55-126	8	30			
2-Nitroaniline	90	96	67-125	7	30			
3-Nitroaniline	86	91	59-122	5	30			
4-Nitroaniline	74	75	52-112	1	30			
Nitrobenzene	81	90	51-114	11	30			
2-Nitrophenol	88	97	74-115	10	30			
4-Nitrophenol	72	76	39-133	5	30			
N-Nitroso-di-n-propylamine	74	83	60-116	12	30			
N-Nitrosodiphenylamine	91	97	86-145	7	30			
Pentachlorophenol	76	84	17-149	10	30			
Phenol	80	88	58-126	10	30			
1,2,4-Trichlorobenzene	85	93	72-115	9	30			
2,4,5-Trichlorophenol	94	99	34-139	5	30			
2,4,6-Trichlorophenol	93	99	49-140	7	30			
Batch number: 103240013A	Sample number(s): 6143354 UNSPK: P137485							
Perchlorate in Soil LC/MS/MS	99	98	70-130	1	30			

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: 103260008A	Sample number(s): 6143353-6143354 UNSPK: P144589								
PCB-1016	106	123	29-146	15	50				
PCB-1260	127	144	39-149	13	50				
Batch number: 103221026002A	Sample number(s): 6143353-6143354 UNSPK: P144589 BKG: P144589								
Antimony	41*	41*	75-125	1	20	0.239	0.271	13 (1)	20
Arsenic	205*	167*	75-125	7	20	6.31	6.38	1	20
Beryllium	66*	47*	75-125	11	20	0.905	0.751	19	20
Cadmium	147*	133*	75-125	7	20	0.150	0.120	22* (1)	20
Chromium	178*	123	75-125	16	20	17.6	26.3	40*	20
Cobalt	106	99	75-125	4	20	11.5	9.68	17	20
Copper	139*	118	75-125	9	20	8.13	10.9	29*	20
Lead	119	100	75-125	4	20	8.00	9.17	14	20
Nickel	148*	144*	75-125	0	20	11.3	14.8	27*	20
Silver	136*	124	75-125	7	20	0.0441 J	0.0710 J	47* (1)	20
Thallium	94	84	75-125	5	20	0.390	0.302	26* (1)	20
Vanadium	220*	153*	75-125	11	20	38.2	49.1	25*	20
Zinc	235 (2)	233 (2)	75-125	0	20	40.6	59.8	38*	20
Batch number: 103221026002B	Sample number(s): 6143353-6143354 UNSPK: P144589 BKG: P144589								
Selenium	131*	113	75-125	12	20	0.0907 J	0.0637 J	35* (1)	20
Batch number: 103221026002C	Sample number(s): 6143353-6143354 UNSPK: P144589 BKG: P144589								
Molybdenum	136*	115	75-125	14	20	0.512	0.423	19 (1)	20
Batch number: 103221026002D	Sample number(s): 6143353-6143354 UNSPK: P144589 BKG: P144589								
Barium	194 (2)	-18 (2)	75-125	18	20	111	161	37*	20
Batch number: 103225708004	Sample number(s): 6143353-6143354 UNSPK: P144589 BKG: P144589								
Aluminum	4629 (2)	3151 (2)	75-125	9	20	24,000	24,300	1	20
Boron	96	97	84-115	2	20	9.82	10.4	5 (1)	20
Calcium	227 (2)	466 (2)	75-125	19	20	3,530	3,520	0	20
Iron	3490 (2)	1719 (2)	75-125	7	20	23,000	24,800	8	20
Lithium	115*	113	82-114	1	20	21.7	21.6	0	20
Magnesium	561 (2)	292 (2)	75-125	10	20	4,580	4,700	3	20
Manganese	106 (2)	86 (2)	75-125	3	20	272	357	27*	20
Phosphorus	140*	131*	75-125	4	20	124	140	12	20
Potassium	242*	173*	75-125	17	20	2,020	1,960	3	20
Sodium	110	109	75-125	0	20	307	310	1 (1)	20
Strontium	104	104	75-115	0	20	33.5	33.2	1	20
Tin	90	92	80-110	2	20	2.30 J	2.28 J	1 (1)	20
Zirconium	101	103	75-125	2	20	4.88 J	6.16	23* (1)	20
Batch number: 103225711004	Sample number(s): 6143353-6143354 UNSPK: P144589 BKG: P144589								
Mercury	108	105	65-135	3	20	0.0080 J	0.0048 J	51* (1)	20
Batch number: 103265708002	Sample number(s): 6143353-6143354 UNSPK: P144589 BKG: P144589								
Titanium	-5 (2)	198 (2)	75-125	17	20	1,050	932	12	20
Batch number: 10321621301A	Sample number(s): 6143356 UNSPK: P142731 BKG: P142731								
Hexavalent Chromium (water)	104		59-135			5.0 U	5.0 U	0 (1)	20

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Quality Control Summary

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 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 10330330201B Perchlorate in Soil	102		80-120		UNSPK: P144589 9.0 U	BKG: P144589 9.0 U	0 (1)	15
Batch number: 10335243201A Hexavalent Chromium by IC	88		75-125		UNSPK: 6143354 320 J	BKG: 6143354 400 J	22* (1)	20
Batch number: 10336336201A Fluoride by IC (solid)	82		80-120		UNSPK: P144589 4,500	BKG: P144589 5,000	11 (1)	20
Batch number: 10322039403A pH					BKG: 6143353 8.28	8.27	0	1
Batch number: 10322182103A Oxidation Reduction Potential					BKG: 6143353 453	454	0	6
Batch number: 10327162401B Moisture CDM					BKG: P144589 9.5	8.5	11	20

Surrogate Quality Control

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

Analysis Name: VOCs in Soil 8260B

Batch number: B103232AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6143353	95	96	97	91
6143354	96	94	98	91
Blank	96	93	97	90
LCS	95	100	99	94
LCSD	95	97	98	94
MS	94	94	100	95
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1,4-Dioxane by Isotope Dil SIM

Batch number: E103231AA

	Toluene-d8
6143355	102
6143356	101
Blank	101
LCS	101
MS	101
MSD	102
Limits:	80-120

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

Surrogate Quality Control

 Analysis Name: 1,4-Dioxane by Isotope DL SIM
 Batch number: E103232AA
 Toluene-d8

6143353	99
6143354	98
Blank	99
LCS	100
LCSD	100

Limits: 70-130

 Analysis Name: VOCs in Water 8260B
 Batch number: Y103263AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6143355	97	96	104	101
6143356	98	94	103	100
Blank	99	94	103	100
LCS	99	99	104	101
LCSD	97	98	104	100

Limits: 86-118 80-120 88-110 86-115

 Analysis Name: Selected SVOAs in soil by SIM
 Batch number: 10322SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6143353	77	78	84
6143354	79	81	95
Blank	85	91	91
LCS	82	84	84
MS	81	84	82
MSD	81	83	81

Limits: 40-130 45-130 45-135

 Analysis Name: TCL SW846 Semivolatiles Soil
 Batch number: 10323SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6143353	81	85	79	78	84	90
6143354	87	90	84	80	88	97
Blank	82	85	91	80	85	79
LCS	88	91	90	80	83	84
MS	78	80	89	74	81	83
MSD	84	88	92	80	85	88

Limits: 25-120 25-130 35-130 40-130 45-130 45-135

 Analysis Name: TCL SW846 Semivolatiles/Waters
 Batch number: 10324WAF026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6143356	45	27	78	83	87	82
Blank	46	27	96	83	87	80
LCS	57	37	89	83	87	83

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/08/10 at 02:44 PM

Group Number: 1221705

Surrogate Quality Control

LCSD	54	33	91	84	87	82
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: Selected SVOAs in water by SIM

Batch number: 10326WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6143356	82	83	88
Blank	75	81	85
LCS	82	84	84
LCSD	83	87	86

Limits:	40-130	45-130	45-135
---------	--------	--------	--------

Analysis Name: PCBs & PCTs in Soil

Batch number: 103260008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6143353	101	113
6143354	94	88
Blank	106	120
LCS	100	116
LCSD	108	122*
MS	107	119
MSD	126	136*

Limits:	53-139	45-120
---------	--------	--------

Analysis Name: PCBs & PCTs in Water

Batch number: 103260023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6143356	116	115
Blank	100	96
LCS	112	101
LCSD	110	82

Limits:	30-150	45-120
---------	--------	--------

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

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

acct # 13013 Cup # 1221705 Sample # 6143353-56

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH g/mo/d EPA 8015B	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	Other Instructions and Notes	
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																		
Samplers: (Signature) <i>Parvula Hartman</i>																		
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers													
SL-083-SA5C-SB-2.5-3.5	11.16.10	1335	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X			
SL-083-SA5C-SB-3.5	11.16.10	1333	soil	none	4 - Encore samplers	X	X											
SL-085-SA5C-SB-3.0	11.16.10	1458	soil	none	4 - Encore samplers	X	X											
SL-085-SA5C-SB-2.5-3.0	11.16.10	1503	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X	X	X		
TB-111610	11.16.10	1530	water	HCl	3 - 40 ml VOA vials	X	X										Trip blank	
EB08-SA5C-111610	11.16.10	1235	water	none	6 - 1 Liter amber glass			X				X	X				plus 2 extra amber bottles	
EB08-SA5C-111610	11.16.10	1235	water	none	1 - 500 mL poly bottle					X	X			X				
EB08-SA5C-111610	11.16.10	1235	water	HNO ₃	1 - 500 mL poly bottle				X									
EB08-SA5C-111610	11.16.10	1235	water	HCl	3 - 40 ml VOA vials	X	X											
AB 11/26/10																		
Relinquished by: (Signature) <i>Tom Allen</i>		Date/Time 11.16.10 1530		Received for Laboratory by: (Signature) <i>Dany Buh</i>			Date/Time 11/17/10 9:15										Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)		Date/Time		Airbill No. 00732992														
				Tracking Number 869514313264														

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

January 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/18/2010
Group Number: 1221905
SDG: DE018
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-080-SA5C-SB-4.0-5.0 Soil	6144589
SL-080-SA5C-SB-4.0-5.0MS Soil	6144590
SL-080-SA5C-SB-4.0-5.0MSD Soil	6144591
SL-080-SA5C-SB-4.0-5.0DUP Soil	6144592
SL-080-SA5C-SB-7.5-8.5 Soil	6144593
SL-079-SA5C-SB-4.0-5.0 Soil	6144594
SL-079-SA5C-SB-8.5-9.5 Soil	6144595
DUP08-SA5C-QC-111710 Soil	6144596
SL-081-SA5C-SB-3.0-4.0 Soil	6144597
TB-111710 Water	6144598
SL-072-SA5C-SB-4.0-5.0 Soil	6144599
SL-072-SA5C-SB-7.5-8.5 Soil	6144600

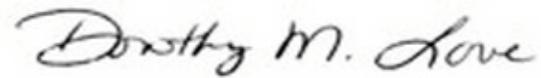
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program
COPY TO
1 COPY TO Data Package Group

Attn: Todd Burgesser

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

Respectfully Submitted,



Dorothy M. Love
Group Leader

Sample Description: SL-080-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144589
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5 U	7.5	8.9	1.01
06192	Benzene	71-43-2	0.11 U	0.11	4.5	1.01
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.5	1.01
06192	Bromochloromethane	74-97-5	0.37 U	0.37	4.5	1.01
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.5	1.01
06192	Bromoform	75-25-2	0.45 U	0.45	4.5	1.01
06192	Bromomethane	74-83-9	0.28 U	0.28	4.5	1.01
06192	2-Butanone	78-93-3	1.4 U	1.4	8.9	1.01
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.5	1.01
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.5	1.01
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.5	1.01
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.5	1.01
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.5	1.01
06192	Chloroethane	75-00-3	0.14 U	0.14	4.5	1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.5	1.01
06192	Chloroform	67-66-3	0.13 U	0.13	4.5	1.01
06192	Chloromethane	74-87-3	0.37 U	0.37	4.5	1.01
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.5	1.01
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.5	1.01
06192	Chlorotrifluoroethene	79-38-9	0.56 U	0.56	5.6	1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78 U	0.78	4.5	1.01
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.5	1.01
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.5	1.01
06192	Dibromomethane	74-95-3	0.27 U	0.27	4.5	1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	4.5	1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.5	1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.5	1.01
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.5	1.01
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.5	1.01
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.5	1.01
06192	1,1-Dichloroethene	75-35-4	0.44 U	0.44	4.5	1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.5	1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.5	1.01
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.5	1.01
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.5	1.01
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.5	1.01
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.5	1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.5	1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.5	1.01
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.5	1.01
06192	Freon 113	76-13-1	0.12 U	0.12	4.5	1.01
06192	Freon 133a	75-88-7	0.56 U	0.56	5.6	1.01
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.5	1.01
06192	2-Hexanone	591-78-6	1.8 U	1.8	8.9	1.01
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.5	1.01
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.5	1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.5	1.01
06192	4-Methyl-2-pentanone	108-10-1	0.44 U	0.44	8.9	1.01
06192	Methylene Chloride	75-09-2	0.27 U	0.27	4.5	1.01
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.5	1.01

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

Sample Description: SL-080-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144589
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.11 U	0.11	4.5	1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.5	1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26 U	0.26	4.5	1.01
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.5	1.01
06192	Toluene	108-88-3	0.09 U	0.09	4.5	1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.5	1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.5	1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.5	1.01
06192	1,1,2-Trichloroethane	79-00-5	0.30 U	0.30	4.5	1.01
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.5	1.01
06192	Trichlorofluoromethane	75-69-4	0.32 U	0.32	4.5	1.01
06192	1,2,3-Trichloropropane	96-18-4	0.37 U	0.37	4.5	1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.45 U	0.45	4.5	1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.5	1.01
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.5	1.01
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.5	1.01
06192	o-Xylene	95-47-6	0.19 U	0.19	4.5	1.01
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.8 U	5.8	17	26.37
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	180	U 180	550	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U 180	550	1
04688	Benzyl alcohol	100-51-6	180	U 180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180	1
04688	Carbazole	86-74-8	18	U 18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	180	1
04688	4-Chloroaniline	106-47-8	74	U 74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180	1
04688	2-Chlorophenol	95-57-8	18	U 18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	180	1
04688	Dibenzofuran	132-64-9	18	U 18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U 740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180	1

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

Sample Description: SL-080-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144589
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01BKG

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

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

Sample Description: SL-080-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144589
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74 U	0.74	1.8	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9	1
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	26,500	5.50	21.9	1
07914	Boron	7440-42-8	10.9	0.974	5.47	1
01650	Calcium	7440-70-2	3,900	6.71	21.9	1
01654	Iron	7439-89-6	25,400	5.15	21.9	1
01656	Lithium	7439-93-2	23.9	0.24	2.2	1
01657	Magnesium	7439-95-4	5,060	2.78	10.9	1
06958	Manganese	7439-96-5	301	0.0853	0.547	1
10145	Phosphorus	7723-14-0	137	0.613	10.9	1
01662	Potassium	7440-09-7	2,230	19.7	54.7	1
01667	Sodium	7440-23-5	339	40.8	109	1
07968	Strontium	7440-24-6	37.0	0.0678	0.547	1
06969	Tin	7440-31-5	2.54 J	1.09	10.9	1
06970	Titanium	7440-32-6	1,160	0.831	2.19	2
10146	Zirconium	7440-67-7	5.39 J	0.919	5.47	1
SW-846 6020						
06124	Antimony	7440-36-0	0.264	0.0663	0.221	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.97	0.0663	0.442	2
06126	Barium	7440-39-3	122	0.119	0.442	2
06127	Beryllium	7440-41-7	1.00	0.0177	0.110	2
06128	Cadmium	7440-43-9	0.165	0.0398	0.110	2
06131	Chromium	7440-47-3	19.4	0.133	0.442	2
06132	Cobalt	7440-48-4	12.7	0.0221	0.110	2
06133	Copper	7440-50-8	8.98	0.0729	0.442	2
06135	Lead	7439-92-1	8.84	0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.566	0.0552	0.110	2

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

Sample Description: SL-080-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144589
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06139	Nickel	7440-02-0	12.5	0.110	0.442	2
06141	Selenium	7782-49-2	0.100 J	0.0442	0.442	2
06142	Silver	7440-22-4	0.0487 J	0.0133	0.110	2
06145	Thallium	7440-28-0	0.431	0.0331	0.110	2
06148	Vanadium	7440-62-2	42.2	0.0243	0.110	2
06149	Zinc	7440-66-6	44.9	0.619	3.31	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0089 J	0.0031	0.109	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9	0.88	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.22	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	470	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.90	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	28a Total Solids by 160.3	n.a.	9.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-072-SA5C-SB-4.5.

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

Sample Description: SL-080-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144589
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103232AA	11/19/2010 17:25	Kenneth L Boley Jr	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103232AA	11/19/2010 18:49	Jason M Long	26.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032223019	11/18/2010 17:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201032223019	11/18/2010 18:13	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201032223019	11/18/2010 18:13	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032223019	11/18/2010 17:46	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/03/2010 11:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 02:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/01/2010 22:56	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 01:43	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 15:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 15:15	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 15:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 01:43	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 15:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 15:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 01:43	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 01:43	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 01:43	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 01:43	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 01:43	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 06:48	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 01:43	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 11:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 11:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 11:12	Choon Y Tian	2

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

Sample Description: SL-080-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144589
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 06:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201A	12/03/2010 22:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10330330201B	11/29/2010 13:53	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10340243201A	12/07/2010 08:57	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103B	11/18/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10322039403B	11/18/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10327162401B	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-080-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144590
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	18	180	1
04688	Acenaphthylene	208-96-8	1,600	18	180	1
04688	Aniline	62-53-3	1,100	180	550	1
04688	Anthracene	120-12-7	1,600	18	180	1
04688	Benzidine	92-87-5	2,000	J 1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180	1
04688	Benzo(a)pyrene	50-32-8	2,000	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	2,300	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	2,000	18	180	1
04688	Benzoic acid	65-85-0	600	180	550	1
04688	Benzyl alcohol	100-51-6	1,500	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700	18	180	1
04688	Butylbenzylphthalate	85-68-7	1,800	18	180	1
04688	Di-n-butylphthalate	84-74-2	1,700	18	180	1
04688	Carbazole	86-74-8	1,700	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	37	180	1
04688	4-Chloroaniline	106-47-8	1,100	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300	18	180	1
04688	2-Chloronaphthalene	91-58-7	1,600	18	180	1
04688	2-Chlorophenol	95-57-8	1,600	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	37	180	1
04688	Chrysene	218-01-9	1,600	18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	2,000	18	180	1
04688	Dibenzofuran	132-64-9	1,700	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,500	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180	1
04688	Diethylphthalate	84-66-2	1,700	18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,600	37	180	1
04688	3,5-Dimethylphenol	108-68-9	1,900	37	180	1
04688	Dimethylphthalate	131-11-3	1,700	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	180	550	1
04688	2,4-Dinitrophenol	51-28-5	1,600	J 740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	1,700	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,600	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	18	370	1
04688	Fluoranthene	206-44-0	1,700	18	180	1
04688	Fluorene	86-73-7	1,700	18	180	1
04688	Hexachlorobenzene	118-74-1	1,700	18	180	1
04688	Hexachlorobutadiene	87-68-3	1,500	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,900	180	550	1
04688	Hexachloroethane	67-72-1	1,400	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000	18	180	1
04688	Isophorone	78-59-1	1,500	18	180	1

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

Sample Description: SL-080-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144590
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180	1
04688	2-Methylphenol	95-48-7	1,600	37	180	1
04688	4-Methylphenol	106-44-5	1,500	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	18	180	1
04688	2-Nitroaniline	88-74-4	1,700	18	180	1
04688	3-Nitroaniline	99-09-2	1,600	37	180	1
04688	4-Nitroaniline	100-01-6	1,400	74	180	1
04688	Nitrobenzene	98-95-3	1,500	18	180	1
04688	2-Nitrophenol	88-75-5	1,600	18	180	1
04688	4-Nitrophenol	100-02-7	1,300	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,400	18	180	1
04688	Pentachlorophenol	87-86-5	1,400	180	550	1
04688	Phenanthrene	85-01-8	1,700	18	180	1
04688	Phenol	108-95-2	1,500	18	180	1
04688	Pyrene	129-00-0	1,800	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	37	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.74	1.8	1
10138	Acenaphthylene	208-96-8	34	0.37	1.8	1
10138	Anthracene	120-12-7	37	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	38	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	42	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	46	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	38	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	45	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	40	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	42	6.6	20	1
10138	Chrysene	218-01-9	38	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	39	0.74	1.8	1
10138	Diethylphthalate	84-66-2	40	6.6	20	1
10138	Dimethylphthalate	131-11-3	39	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40	6.6	20	1
10138	Fluoranthene	206-44-0	37	0.74	1.8	1
10138	Fluorene	86-73-7	38	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	38	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	36	0.74	1.8	1

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

Sample Description: SL-080-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144590
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	2-Methylnaphthalene	91-57-6	33	0.74	1.8	1
10138	Naphthalene	91-20-3	35	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	32	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	44	6.6	20	1
10138	Phenanthrene	85-01-8	37	0.74	1.8	1
10138	Pyrene	129-00-0	37	0.74	1.8	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	20	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9	1
10225	PCB-1260	11096-82-5	23	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9	1
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	36,600	5.50	21.9	1
07914	Boron	7440-42-8	220	0.974	5.47	1
01650	Calcium	7440-70-2	4,890	6.71	21.9	1
01654	Iron	7439-89-6	29,200	5.15	21.9	1
01656	Lithium	7439-93-2	149	0.24	2.2	1
01657	Magnesium	7439-95-4	6,290	2.78	10.9	1
06958	Manganese	7439-96-5	358	0.0853	0.547	1
10145	Phosphorus	7723-14-0	291	0.613	10.9	1
01662	Potassium	7440-09-7	4,880	19.7	54.7	1
01667	Sodium	7440-23-5	1,540	40.8	109	1
07968	Strontium	7440-24-6	151	0.0678	0.547	1
06969	Tin	7440-31-5	398	1.09	10.9	1
06970	Titanium	7440-32-6	1,150	0.807	2.12	2
10146	Zirconium	7440-67-7	116	0.919	5.47	1
SW-846 6020						
06124	Antimony	7440-36-0	0.796	0.0650	0.217	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.4	0.0650	0.433	2
06126	Barium	7440-39-3	143	0.117	0.433	2
06127	Beryllium	7440-41-7	1.57	0.0173	0.108	2
06128	Cadmium	7440-43-9	1.76	0.0390	0.108	2
06131	Chromium	7440-47-3	38.8	0.130	0.433	2
06132	Cobalt	7440-48-4	70.3	0.0217	0.108	2
06133	Copper	7440-50-8	24.0	0.0715	0.433	2

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



Analysis Report

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

Sample Description: SL-080-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144590
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	12.7	0.0113	0.217	2
06138	Molybdenum	7439-98-7	15.3	0.0542	0.108	2
06139	Nickel	7440-02-0	28.6	0.108	0.433	2
06141	Selenium	7782-49-2	2.94	0.0433	0.433	2
06142	Silver	7440-22-4	14.8	0.0130	0.108	2
06145	Thallium	7440-28-0	0.838	0.0325	0.108	2
06148	Vanadium	7440-62-2	66.1	0.0238	0.108	2
06149	Zinc	7440-66-6	70.3	0.607	3.25	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.201	0.0031	0.107	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.9	0.88	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	559	9.9	33.1	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	41.3	1.1	5.5	5
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11625	28a Total Solids by 160.3	n.a.	9.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/03/2010 12:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 03:30	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/01/2010 23:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 01:54	John W Yanzuk II	1

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

Sample Description: SL-080-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144590
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 15:27	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 15:27	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 15:27	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 01:54	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 15:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 15:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 01:54	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 01:54	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 01:54	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 01:54	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 01:54	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 06:57	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 01:54	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 11:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 11:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 11:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 06:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201A	12/03/2010 22:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10330330201B	11/29/2010 14:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10340243201A	12/07/2010 09:38	William L Hamaker Jr	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1

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



Analysis Report

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

Sample Description: SL-080-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144590
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10327162401B	11/24/2010 05:21	William C Schwebel	1

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

Sample Description: SL-080-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144591
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700	18	180	1
04688	Acenaphthylene	208-96-8	1,700	18	180	1
04688	Aniline	62-53-3	1,100	180	550	1
04688	Anthracene	120-12-7	1,800	18	180	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,800	18	180	1
04688	Benzo(a)pyrene	50-32-8	2,200	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	2,400	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	2,100	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	2,200	18	180	1
04688	Benzoic acid	65-85-0	670	180	550	1
04688	Benzyl alcohol	100-51-6	1,700	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	18	180	1
04688	Butylbenzylphthalate	85-68-7	1,900	18	180	1
04688	Di-n-butylphthalate	84-74-2	1,800	18	180	1
04688	Carbazole	86-74-8	1,800	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	37	180	1
04688	4-Chloroaniline	106-47-8	1,200	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	18	180	1
04688	2-Chloronaphthalene	91-58-7	1,700	18	180	1
04688	2-Chlorophenol	95-57-8	1,700	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	37	180	1
04688	Chrysene	218-01-9	1,800	18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	2,200	18	180	1
04688	Dibenzofuran	132-64-9	1,800	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,600	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,600	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,700	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,800	18	180	1
04688	Diethylphthalate	84-66-2	1,700	18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,800	37	180	1
04688	3,5-Dimethylphenol	108-68-9	2,000	37	180	1
04688	Dimethylphthalate	131-11-3	1,800	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400	180	550	1
04688	2,4-Dinitrophenol	51-28-5	1,900	J 740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	1,700	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,800	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	18	370	1
04688	Fluoranthene	206-44-0	1,700	18	180	1
04688	Fluorene	86-73-7	1,800	18	180	1
04688	Hexachlorobenzene	118-74-1	1,800	18	180	1
04688	Hexachlorobutadiene	87-68-3	1,700	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,700	180	550	1
04688	Hexachloroethane	67-72-1	1,500	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,200	18	180	1
04688	Isophorone	78-59-1	1,600	18	180	1

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

Sample Description: SL-080-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144591
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,800	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180	1
04688	2-Methylphenol	95-48-7	1,700	37	180	1
04688	4-Methylphenol	106-44-5	1,600	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	18	180	1
04688	2-Nitroaniline	88-74-4	1,800	18	180	1
04688	3-Nitroaniline	99-09-2	1,700	37	180	1
04688	4-Nitroaniline	100-01-6	1,400	74	180	1
04688	Nitrobenzene	98-95-3	1,700	18	180	1
04688	2-Nitrophenol	88-75-5	1,800	18	180	1
04688	4-Nitrophenol	100-02-7	1,400	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,600	18	180	1
04688	Pentachlorophenol	87-86-5	1,500	180	550	1
04688	Phenanthrene	85-01-8	1,800	18	180	1
04688	Phenol	108-95-2	1,600	18	180	1
04688	Pyrene	129-00-0	1,900	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.74	1.8	1
10138	Acenaphthylene	208-96-8	34	0.37	1.8	1
10138	Anthracene	120-12-7	36	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	37	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	42	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	45	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	37	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	44	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	40	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	41	6.6	20	1
10138	Chrysene	218-01-9	37	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	38	0.74	1.8	1
10138	Diethylphthalate	84-66-2	40	6.6	20	1
10138	Dimethylphthalate	131-11-3	39	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40	6.6	20	1
10138	Fluoranthene	206-44-0	37	0.74	1.8	1
10138	Fluorene	86-73-7	38	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	38	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	36	0.74	1.8	1

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



Analysis Report

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

Sample Description: SL-080-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144591
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	2-Methylnaphthalene	91-57-6	32	0.74	1.8	1
10138	Naphthalene	91-20-3	35	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	33	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	44	6.6	20	1
10138	Phenanthrene	85-01-8	37	0.74	1.8	1
10138	Pyrene	129-00-0	37	0.74	1.8	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	23	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9	1
10225	PCB-1260	11096-82-5	27	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9	1
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	33,400	5.50	21.9	1
07914	Boron	7440-42-8	223	0.974	5.47	1
01650	Calcium	7440-70-2	5,940	6.71	21.9	1
01654	Iron	7439-89-6	27,300	5.15	21.9	1
01656	Lithium	7439-93-2	148	0.24	2.2	1
01657	Magnesium	7439-95-4	5,700	2.78	10.9	1
06958	Manganese	7439-96-5	348	0.0853	0.547	1
10145	Phosphorus	7723-14-0	280	0.613	10.9	1
01662	Potassium	7440-09-7	4,120	19.7	54.7	1
01667	Sodium	7440-23-5	1,530	40.8	109	1
07968	Strontium	7440-24-6	151	0.0678	0.547	1
06969	Tin	7440-31-5	405	1.09	10.9	1
06970	Titanium	7440-32-6	1,370	0.823	2.17	2
10146	Zirconium	7440-67-7	118	0.919	5.47	1
SW-846 6020						
06124	Antimony	7440-36-0	0.802	0.0663	0.221	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.7	0.0663	0.442	2
06126	Barium	7440-39-3	120	0.119	0.442	2
06127	Beryllium	7440-41-7	1.42	0.0177	0.110	2
06128	Cadmium	7440-43-9	1.64	0.0398	0.110	2
06131	Chromium	7440-47-3	33.1	0.133	0.442	2
06132	Cobalt	7440-48-4	67.2	0.0221	0.110	2
06133	Copper	7440-50-8	22.0	0.0729	0.442	2

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

Sample Description: SL-080-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144591
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals			SW-846 6020	mg/kg	mg/kg	mg/kg
06135	Lead	7439-92-1	12.2	0.0115	0.221	2
06138	Molybdenum	7439-98-7	13.3	0.0552	0.110	2
06139	Nickel	7440-02-0	28.5	0.110	0.442	2
06141	Selenium	7782-49-2	2.61	0.0442	0.442	2
06142	Silver	7440-22-4	13.7	0.0133	0.110	2
06145	Thallium	7440-28-0	0.801	0.0331	0.110	2
06148	Vanadium	7440-62-2	59.1	0.0243	0.110	2
06149	Zinc	7440-66-6	70.6	0.619	3.31	2
			SW-846 7471A	mg/kg	mg/kg	mg/kg
00159	Mercury	7439-97-6	0.195	0.0031	0.106	1
Wet Chemistry			EPA 160.3 modified	%	%	%
11625	28a Total Solids by 160.3	n.a.	9.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/03/2010 12:26	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 04:03	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/01/2010 23:33	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 01:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 15:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 15:32	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 15:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 01:57	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 15:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 15:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 01:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 01:57	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 01:57	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 01:57	John W Yanzuk II	1

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

Sample Description: SL-080-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144591
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010	01:57	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010	07:01	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010	01:57	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010	11:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010	11:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010	11:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010	11:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010	11:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010	06:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010	21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010	10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010	21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010	01:15	Annamaria Stipkovits	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10327162401B	11/24/2010	05:21	William C Schwebel	1

Sample Description: SL-080-SA5C-SB-4.0-5.0DUP Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144592
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,800	5.45	21.7	1
07914	Boron	7440-42-8	11.5	0.964	5.42	1
01650	Calcium	7440-70-2	3,890	6.64	21.7	1
01654	Iron	7439-89-6	27,400	5.10	21.7	1
01656	Lithium	7439-93-2	23.9	0.24	2.2	1
01657	Magnesium	7439-95-4	5,190	2.75	10.8	1
06958	Manganese	7439-96-5	395	0.0845	0.542	1
10145	Phosphorus	7723-14-0	155	0.607	10.8	1
01662	Potassium	7440-09-7	2,170	19.5	54.2	1
01667	Sodium	7440-23-5	342	40.4	108	1
07968	Strontium	7440-24-6	36.7	0.0672	0.542	1
06969	Tin	7440-31-5	2.52 J	1.08	10.8	1
06970	Titanium	7440-32-6	1,030	0.831	2.19	2
10146	Zirconium	7440-67-7	6.81	0.910	5.42	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.300	0.0663	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.05	0.0663	0.442	2
06126	Barium	7440-39-3	178	0.119	0.442	2
06127	Beryllium	7440-41-7	0.830	0.0177	0.110	2
06128	Cadmium	7440-43-9	0.132	0.0398	0.110	2
06131	Chromium	7440-47-3	29.1	0.133	0.442	2
06132	Cobalt	7440-48-4	10.7	0.0221	0.110	2
06133	Copper	7440-50-8	12.0	0.0729	0.442	2
06135	Lead	7439-92-1	10.1	0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.467	0.0552	0.110	2
06139	Nickel	7440-02-0	16.4	0.110	0.442	2
06141	Selenium	7782-49-2	0.0704 J	0.0442	0.442	2
06142	Silver	7440-22-4	0.0785 J	0.0133	0.110	2
06145	Thallium	7440-28-0	0.334	0.0331	0.110	2
06148	Vanadium	7440-62-2	54.3	0.0243	0.110	2
06149	Zinc	7440-66-6	66.1	0.619	3.31	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0053 J	0.0031	0.110	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5	0.88	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53 J	0.22	1.1	1

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

Sample Description: SL-080-SA5C-SB-4.0-5.0DUP Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144592
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	471	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
00394	22a pH by 9045C	n.a.	7.90	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11625	28a Total Solids by 160.3	n.a.	9.5	0.50	0.50	1
11626	28a Total Solids by 160.3	n.a.	8.5	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 01:50	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 15:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 15:23	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 15:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 01:50	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 15:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 15:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 01:50	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 01:50	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 01:50	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 01:50	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 01:50	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 06:54	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 01:50	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 11:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2

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

Sample Description: SL-080-SA5C-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5C-SB-4.0-5.0

LLI Sample # SW 6144592
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08045 SDG#: DE018-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 11:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 11:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 11:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 06:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201A	12/03/2010 22:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10330330201B	11/29/2010 14:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 09:04	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103B	11/18/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10322039403B	11/18/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10327162401B	11/24/2010 05:21	William C Schwebel	1
11626	28a Total Solids by 160.3	EPA 160.3 modified	1	10327162401B	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-080-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-7.5-8.5

LLI Sample # SW 6144593
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:13 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08078 SDG#: DE018-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	540	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U 180	540	1
04688	Benzyl alcohol	100-51-6	180	U 180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180	1
04688	Carbazole	86-74-8	18	U 18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180	1
04688	4-Chloroaniline	106-47-8	72	U 72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180	1
04688	2-Chlorophenol	95-57-8	18	U 18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180	1
04688	Dibenzofuran	132-64-9	18	U 18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U 720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J 18	360	1
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	36	U 36	180	1
04688	4-Methylphenol	106-44-5	36	U 36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	36	U 36	180	1
04688	4-Nitroaniline	100-01-6	72	U 72	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	180	U 180	540	1

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

Sample Description: SL-080-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-7.5-8.5

LLI Sample # SW 6144593
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:13 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08078 SDG#: DE018-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U 0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U 0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U 0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U 0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U 0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	20	1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U 0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U 0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U 0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U 0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U 0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U 0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U 0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U 0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U 6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U 0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U 0.72	1.8	1
Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U 0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54	U 0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U 0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U 0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36	U 0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U 0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36	U 0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36	U 0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U 0.36	1.8	1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,300	5.30	21.1	1
07914	Boron	7440-42-8	9.73	0.938	5.27	1
01650	Calcium	7440-70-2	3,350	6.46	21.1	1

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

Sample Description: SL-080-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-7.5-8.5

LLI Sample # SW 6144593
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:13 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08078 SDG#: DE018-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01654	Iron	7439-89-6	27,400	4.97	21.1	1
01656	Lithium	7439-93-2	21.4	0.23	2.1	1
01657	Magnesium	7439-95-4	4,360	2.68	10.5	1
06958	Manganese	7439-96-5	1,490	0.411	2.64	5
10145	Phosphorus	7723-14-0	308	0.590	10.5	1
01662	Potassium	7440-09-7	2,440	19.0	52.7	1
01667	Sodium	7440-23-5	213	39.3	105	1
07968	Strontium	7440-24-6	26.3	0.0654	0.527	1
06969	Tin	7440-31-5	2.35 J	1.05	10.5	1
06970	Titanium	7440-32-6	1,070	0.825	2.17	2
10146	Zirconium	7440-67-7	3.72 J	0.885	5.27	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.213	0.0639	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	10.4	0.0639	0.426	2
06126	Barium	7440-39-3	122	0.115	0.426	2
06127	Beryllium	7440-41-7	0.633	0.0170	0.106	2
06128	Cadmium	7440-43-9	0.142	0.0383	0.106	2
06131	Chromium	7440-47-3	27.4	0.128	0.426	2
06132	Cobalt	7440-48-4	19.7	0.0213	0.106	2
06133	Copper	7440-50-8	12.8	0.0703	0.426	2
06135	Lead	7439-92-1	11.0	0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.847	0.0532	0.106	2
06139	Nickel	7440-02-0	22.0	0.106	0.426	2
06141	Selenium	7782-49-2	0.0841 J	0.0426	0.426	2
06142	Silver	7440-22-4	0.0392 J	0.0128	0.106	2
06145	Thallium	7440-28-0	0.330	0.0319	0.106	2
06148	Vanadium	7440-62-2	55.3	0.0234	0.106	2
06149	Zinc	7440-66-6	70.7	0.596	3.19	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7	0.87	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.6	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25 J	0.22	1.1	1
	ASTM D1498		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	486	10.0	10.0	1

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

Sample Description: SL-080-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-7.5-8.5

LLI Sample # SW 6144593
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:13 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08078 SDG#: DE018-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.26	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	28a Total Solids by 160.3	n.a.	7.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/03/2010 16:22	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 04:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/01/2010 23:52	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:38	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 18:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 18:41	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 18:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:38	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 18:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/22/2010 13:26	Eric L Eby	5
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:38	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:38	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:38	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:38	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:38	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:40	Joanne M Gates	2

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

Sample Description: SL-080-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-080-SA5C-SB-7.5-8.5

LLI Sample # SW 6144593
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:13 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08078 SDG#: DE018-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:38	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 12:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/24/2010 09:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 12:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 12:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 12:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 06:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201A	12/04/2010 01:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10330330201B	11/29/2010 17:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10340243201A	12/07/2010 10:06	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201A	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103B	11/18/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10322039403B	11/18/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10327162401B	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-079-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-4.0-5.0

LLI Sample # SW 6144594
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:04 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07945 SDG#: DE018-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1 U	7.1	8.5	0.99
06192	Benzene	71-43-2	0.11 U	0.11	4.2	0.99
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.2	0.99
06192	Bromochloromethane	74-97-5	0.35 U	0.35	4.2	0.99
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.2	0.99
06192	Bromoform	75-25-2	0.43 U	0.43	4.2	0.99
06192	Bromomethane	74-83-9	0.27 U	0.27	4.2	0.99
06192	2-Butanone	78-93-3	1.3 U	1.3	8.5	0.99
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.2	0.99
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.2	0.99
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.2	0.99
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.2	0.99
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.2	0.99
06192	Chloroethane	75-00-3	0.14 U	0.14	4.2	0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.2	0.99
06192	Chloroform	67-66-3	0.13 U	0.13	4.2	0.99
06192	Chloromethane	74-87-3	0.35 U	0.35	4.2	0.99
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.2	0.99
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.2	0.99
06192	Chlorotrifluoroethene	79-38-9	0.53 U	0.53	5.3	0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74 U	0.74	4.2	0.99
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.2	0.99
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.2	0.99
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.2	0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.2	0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.2	0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.2	0.99
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.2	0.99
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.2	0.99
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.2	0.99
06192	1,1-Dichloroethene	75-35-4	0.41 U	0.41	4.2	0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.2	0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.2	0.99
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.2	0.99
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.2	0.99
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.2	0.99
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.2	0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.2	0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.2	0.99
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.2	0.99
06192	Freon 113	76-13-1	0.12 U	0.12	4.2	0.99
06192	Freon 133a	75-88-7	0.53 U	0.53	5.3	0.99
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.2	0.99
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.5	0.99
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.2	0.99
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.2	0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.2	0.99
06192	4-Methyl-2-pentanone	108-10-1	0.41 U	0.41	8.5	0.99
06192	Methylene Chloride	75-09-2	0.79 J	0.25	4.2	0.99
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.2	0.99

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

Sample Description: SL-079-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5C-SB-4.0-5.0

LLI Sample # SW 6144594
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:04 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07945 SDG#: DE018-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.11 U	0.11	4.2	0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.2	0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.2	0.99
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.2	0.99
06192	Toluene	108-88-3	0.08 U	0.08	4.2	0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.2	0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.2	0.99
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.2	0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.2	0.99
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.2	0.99
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.2	0.99
06192	1,2,3-Trichloropropane	96-18-4	0.35 U	0.35	4.2	0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.2	0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.2	0.99
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.2	0.99
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.2	0.99
06192	o-Xylene	95-47-6	0.18 U	0.18	4.2	0.99
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.0 U	5.0	15	23.54
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	180	U 180	540	1
04688	Benzidine	92-87-5	1,200	U 1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U 180	540	1
04688	Benzyl alcohol	100-51-6	180	U 180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180	1
04688	Carbazole	86-74-8	18	U 18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180	1
04688	4-Chloroaniline	106-47-8	71	U 71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180	1
04688	2-Chlorophenol	95-57-8	18	U 18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180	1
04688	Dibenzofuran	132-64-9	18	U 18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540	1
04688	2,4-Dinitrophenol	51-28-5	710	U 710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180	1

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

Sample Description: SL-079-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-4.0-5.0

LLI Sample # SW 6144594
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:04 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07945 SDG#: DE018-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	36	U 36	180	1
04688	4-Methylphenol	106-44-5	36	U 36	180	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	36	U 36	180	1
04688	4-Nitroaniline	100-01-6	71	U 71	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540	1
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U 0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U 0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U 0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U 0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U 0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U 6.4	19	1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U 0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U 6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U 0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U 0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U 0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U 0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U 0.71	1.8	1

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

Sample Description: SL-079-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-4.0-5.0

LLI Sample # SW 6144594
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:04 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07945 SDG#: DE018-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	N-Nitrosodimethylamine	62-75-9	0.71 U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4 U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71 U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71 U	0.71	1.8	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35 U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56 U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.35 U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35 U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35 U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35 U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35 U	0.35	1.8	1
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	20,500	5.39	21.4	1
07914	Boron	7440-42-8	9.80	0.953	5.35	1
01650	Calcium	7440-70-2	3,050	6.56	21.4	1
01654	Iron	7439-89-6	21,800	5.04	21.4	1
01656	Lithium	7439-93-2	18.5	0.24	2.1	1
01657	Magnesium	7439-95-4	4,160	2.72	10.7	1
06958	Manganese	7439-96-5	203	0.0835	0.535	1
10145	Phosphorus	7723-14-0	169	0.600	10.7	1
01662	Potassium	7440-09-7	2,140	19.3	53.5	1
01667	Sodium	7440-23-5	227	39.9	107	1
07968	Strontium	7440-24-6	28.2	0.0664	0.535	1
06969	Tin	7440-31-5	2.31 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,050	0.775	2.04	2
10146	Zirconium	7440-67-7	3.93 J	0.899	5.35	1
SW-846 6020						
06124	Antimony	7440-36-0	0.170 J	0.0618	0.206	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.40	0.0618	0.412	2
06126	Barium	7440-39-3	148	0.111	0.412	2
06127	Beryllium	7440-41-7	0.714	0.0165	0.103	2
06128	Cadmium	7440-43-9	0.121	0.0371	0.103	2
06131	Chromium	7440-47-3	25.3	0.124	0.412	2
06132	Cobalt	7440-48-4	8.96	0.0206	0.103	2
06133	Copper	7440-50-8	10.8	0.0679	0.412	2
06135	Lead	7439-92-1	9.08	0.0107	0.206	2
06138	Molybdenum	7439-98-7	0.532	0.0515	0.103	2

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

Sample Description: SL-079-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-4.0-5.0

LLI Sample # SW 6144594
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:04 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07945 SDG#: DE018-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06139	Nickel	7440-02-0	13.2	0.103	0.412	2
06141	Selenium	7782-49-2	0.0820 J	0.0412	0.412	2
06142	Silver	7440-22-4	0.0631 J	0.0124	0.103	2
06145	Thallium	7440-28-0	0.301	0.0309	0.103	2
06148	Vanadium	7440-62-2	53.3	0.0226	0.103	2
06149	Zinc	7440-66-6	52.1	0.577	3.09	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0042 J	0.0030	0.105	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.1	0.86	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	32.1	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 J	0.21	1.1	1
	ASTM D1498		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	461	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.80	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	28a Total Solids by 160.3	n.a.	6.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-079-SA5C-SB-4.5.

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

Sample Description: SL-079-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-4.0-5.0

LLI Sample # SW 6144594
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:04 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07945 SDG#: DE018-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103232AA	11/19/2010 17:48	Kenneth L Boley Jr	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103232AA	11/19/2010 19:09	Jason M Long	23.54
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032223019	11/18/2010 17:54	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201032223019	11/18/2010 18:13	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201032223019	11/18/2010 18:13	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032223019	11/18/2010 17:51	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/03/2010 16:48	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 09:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 00:11	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:41	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 18:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 18:45	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 18:45	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:41	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 18:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 18:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:41	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:41	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:41	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:41	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:41	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:44	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:41	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 12:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 12:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 12:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 12:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 06:14	Damary Valentin	1

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

Sample Description: SL-079-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-4.0-5.0

LLI Sample # SW 6144594
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:04 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07945 SDG#: DE018-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201B	12/04/2010 01:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10330330201B	11/29/2010 17:30	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10340243201A	12/07/2010 10:20	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201B	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103B	11/18/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10322039403B	11/18/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10327162401B	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-079-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-8.5-9.5

LLI Sample # SW 6144595
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07989 SDG#: DE018-04

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

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

Sample Description: SL-079-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-8.5-9.5

LLI Sample # SW 6144595
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07989 SDG#: DE018-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U 0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U 0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U 0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U 0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U 6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U 0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U 0.74	1.9	1
Perchlorate	SW-846 6850 1/2007	ug/kg	ug/kg	ug/kg		
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U 2.3	5.6	1
Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg		
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U 0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U 0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U 0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U 0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U 0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U 0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U 0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U 0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U 0.37	1.9	1

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

Sample Description: SL-079-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-8.5-9.5

LLI Sample # SW 6144595
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07989 SDG#: DE018-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,700	5.49	21.8	1
07914	Boron	7440-42-8	8.95	0.971	5.45	1
01650	Calcium	7440-70-2	3,510	6.68	21.8	1
01654	Iron	7439-89-6	22,300	5.14	21.8	1
01656	Lithium	7439-93-2	23.0	0.24	2.2	1
01657	Magnesium	7439-95-4	4,440	2.77	10.9	1
06958	Manganese	7439-96-5	167	0.0851	0.545	1
10145	Phosphorus	7723-14-0	223	0.611	10.9	1
01662	Potassium	7440-09-7	2,820	19.6	54.5	1
01667	Sodium	7440-23-5	332	40.7	109	1
07968	Strontium	7440-24-6	28.7	0.0676	0.545	1
06969	Tin	7440-31-5	2.56 J	1.09	10.9	1
06970	Titanium	7440-32-6	1,210	0.805	2.12	2
10146	Zirconium	7440-67-7	3.92 J	0.916	5.45	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0661 U	0.0661	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	4.22	0.0661	0.441	2
06126	Barium	7440-39-3	101	0.119	0.441	2
06127	Beryllium	7440-41-7	0.545	0.0176	0.110	2
06128	Cadmium	7440-43-9	0.0404 J	0.0396	0.110	2
06131	Chromium	7440-47-3	24.5	0.132	0.441	2
06132	Cobalt	7440-48-4	5.70	0.0220	0.110	2
06133	Copper	7440-50-8	10.3	0.0727	0.441	2
06135	Lead	7439-92-1	6.15	0.0115	0.220	2
06138	Molybdenum	7439-98-7	0.374	0.0551	0.110	2
06139	Nickel	7440-02-0	13.9	0.110	0.441	2
06141	Selenium	7782-49-2	0.0518 J	0.0441	0.441	2
06142	Silver	7440-22-4	0.0479 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.329	0.0330	0.110	2
06148	Vanadium	7440-62-2	38.4	0.0242	0.110	2
06149	Zinc	7440-66-6	58.6	0.617	3.30	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0094 J	0.0031	0.109	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2	0.89	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0 J	0.22	1.1	1

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

Sample Description: SL-079-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-8.5-9.5

LLI Sample # SW 6144595
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07989 SDG#: DE018-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	456	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
			Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.04	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	28a Total Solids by 160.3	n.a.	10.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/03/2010 17:14	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 10:16	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103240013A	11/22/2010 16:13	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 00:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103240013A	11/22/2010 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 18:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 18:49	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 18:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:45	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 18:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 18:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:45	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:45	John W Yanzuk II	1

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

Sample Description: SL-079-SA5C-SB-8.5-9.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-079-SA5C-SB-8.5-9.5

LLI Sample # SW 6144595
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 12:10 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07989 SDG#: DE018-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:45	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:45	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:47	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:45	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 12:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 12:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 12:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 12:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 06:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201B	12/04/2010 03:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10330330201B	11/29/2010 17:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 10:41	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201B	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103B	11/18/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10322039403B	11/18/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10327162401B	11/24/2010 05:21	William C Schwebel	1

Sample Description: DUP08-SA5C-QC-111710 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP08-SA5C-QC-111710

LLI Sample # SW 6144596
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:15 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

DUP08 SDG#: DE018-05FD

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

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

Sample Description: DUP08-SA5C-QC-111710 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP08-SA5C-QC-111710

LLI Sample # SW 6144596
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:15 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

DUP08 SDG#: DE018-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U 0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U 0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U 0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U 0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U 0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	20	1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U 0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U 0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U 0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U 0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U 0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U 0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U 0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U 0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U 6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U 0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U 0.72	1.8	1
Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U 0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54	U 0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U 0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U 0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36	U 0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U 0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36	U 0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36	U 0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U 0.36	1.8	1

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Sample Description: DUP08-SA5C-QC-111710 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP08-SA5C-QC-111710

LLI Sample # SW 6144596
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:15 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

DUP08 SDG#: DE018-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,100	5.41	21.5	1
07914	Boron	7440-42-8	10.7	0.957	5.38	1
01650	Calcium	7440-70-2	3,740	6.59	21.5	1
01654	Iron	7439-89-6	24,500	5.06	21.5	1
01656	Lithium	7439-93-2	22.1	0.24	2.2	1
01657	Magnesium	7439-95-4	4,650	2.73	10.8	1
06958	Manganese	7439-96-5	346	0.0839	0.538	1
10145	Phosphorus	7723-14-0	153	0.602	10.8	1
01662	Potassium	7440-09-7	2,310	19.4	53.8	1
01667	Sodium	7440-23-5	317	40.1	108	1
07968	Strontium	7440-24-6	32.8	0.0667	0.538	1
06969	Tin	7440-31-5	2.36 J	1.08	10.8	1
06970	Titanium	7440-32-6	1,120	0.825	2.17	2
10146	Zirconium	7440-67-7	4.55 J	0.903	5.38	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.121 J	0.0639	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.38	0.0639	0.426	2
06126	Barium	7440-39-3	240	0.287	1.06	5
06127	Beryllium	7440-41-7	0.828	0.0170	0.106	2
06128	Cadmium	7440-43-9	0.170	0.0383	0.106	2
06131	Chromium	7440-47-3	27.5	0.128	0.426	2
06132	Cobalt	7440-48-4	6.69	0.0213	0.106	2
06133	Copper	7440-50-8	10.7	0.0703	0.426	2
06135	Lead	7439-92-1	7.82	0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.487	0.0532	0.106	2
06139	Nickel	7440-02-0	16.1	0.106	0.426	2
06141	Selenium	7782-49-2	0.0761 J	0.0426	0.426	2
06142	Silver	7440-22-4	0.0721 J	0.0128	0.106	2
06145	Thallium	7440-28-0	0.286	0.0319	0.106	2
06148	Vanadium	7440-62-2	51.8	0.0234	0.106	2
06149	Zinc	7440-66-6	59.0	0.596	3.19	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0076 J	0.0031	0.108	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.4	0.87	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.6	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1

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

Sample Description: DUP08-SA5C-QC-111710 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP08-SA5C-QC-111710

LLI Sample # SW 6144596
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:15 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

DUP08 SDG#: DE018-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	461	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
00394	22a pH by 9045C	n.a.	8.06	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	28a Total Solids by 160.3	n.a.	7.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/03/2010 17:40	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 10:50	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 00:48	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 18:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 18:52	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 18:52	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 18:52	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 18:52	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 07:50	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:55	John W Yanzuk II	1

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

Sample Description: DUP08-SA5C-QC-111710 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP08-SA5C-QC-111710

LLI Sample # SW 6144596
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 10:15 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

DUP08 SDG#: DE018-05FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 12:32	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 12:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 12:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/24/2010 09:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 12:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 06:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201B	12/04/2010 03:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10330330201B	11/29/2010 18:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 10:55	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201B	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103B	11/18/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10322039403B	11/18/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10327162401B	11/24/2010 05:21	William C Schwebel	1

Sample Description: SL-081-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-081-SA5C-SB-3.0-4.0

LLI Sample # SW 6144597
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 13:56 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08145 SDG#: DE018-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.9	0.93
06192	Benzene	71-43-2	0.1 U	0.1	4.0	0.93
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0	0.93
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0	0.93
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0	0.93
06192	Bromoform	75-25-2	0.40 U	0.40	4.0	0.93
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0	0.93
06192	2-Butanone	78-93-3	1.2 U	1.2	7.9	0.93
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0	0.93
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0	0.93
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0	0.93
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0	0.93
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0	0.93
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0	0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0	0.93
06192	Chloroform	67-66-3	0.12 U	0.12	4.0	0.93
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0	0.93
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0	0.93
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0	0.93
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9	0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69 U	0.69	4.0	0.93
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0	0.93
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0	0.93
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0	0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0	0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0	0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0	0.93
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0	0.93
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	4.0	0.93
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0	0.93
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	4.0	0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0	0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0	0.93
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0	0.93
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0	0.93
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0	0.93
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0	0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0	0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0	0.93
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0	0.93
06192	Freon 113	76-13-1	0.11 U	0.11	4.0	0.93
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9	0.93
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0	0.93
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.9	0.93
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0	0.93
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0	0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0	0.93
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.9	0.93
06192	Methylene Chloride	75-09-2	0.24 U	0.24	4.0	0.93
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0	0.93

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

Sample Description: SL-081-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5C-SB-3.0-4.0

LLI Sample # SW 6144597
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 13:56 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08145 SDG#: DE018-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1	4.0	0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0	0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0	0.93
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0	0.93
06192	Toluene	108-88-3	0.08 U	0.08	4.0	0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0	0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0	0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0	0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0	0.93
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0	0.93
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0	0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0	0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0	0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	4.0	0.93
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0	0.93
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0	0.93
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0	0.93
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.1 U	5.1	15	23.81
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	180	U 180	530	1
04688	Benzidine	92-87-5	1,200	U 1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U 180	530	1
04688	Benzyl alcohol	100-51-6	180	U 180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180	1
04688	Carbazole	86-74-8	18	U 18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U 35	180	1
04688	4-Chloroaniline	106-47-8	71	U 71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180	1
04688	2-Chlorophenol	95-57-8	18	U 18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U 35	180	1
04688	Dibenzofuran	132-64-9	18	U 18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U 35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U 35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U 710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U 35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180	1

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

Sample Description: SL-081-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-081-SA5C-SB-3.0-4.0

LLI Sample # SW 6144597
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 13:56 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08145 SDG#: DE018-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J 18	350	1
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	530	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	35	U 35	180	1
04688	4-Methylphenol	106-44-5	35	U 35	180	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	35	U 35	180	1
04688	4-Nitroaniline	100-01-6	71	U 71	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	530	1
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U 35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U 35	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U 0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U 0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U 0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U 0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U 0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U 0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U 0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U 6.4	19	1
10138	Chrysene	218-01-9	0.35	U 0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U 0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U 0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U 0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U 0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U 0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U 0.71	1.8	1

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

Sample Description: SL-081-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-081-SA5C-SB-3.0-4.0

LLI Sample # SW 6144597
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 13:56 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08145 SDG#: DE018-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	N-Nitrosodimethylamine	62-75-9	0.71 U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4 U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71 U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71 U	0.71	1.8	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35 U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53 U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55 U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53 U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35 U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35 U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35 U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35 U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35 U	0.35	1.8	1
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	14,800	5.24	20.8	1
07914	Boron	7440-42-8	8.28	0.927	5.21	1
01650	Calcium	7440-70-2	4,370	6.39	20.8	1
01654	Iron	7439-89-6	22,000	4.91	20.8	1
01656	Lithium	7439-93-2	19.8	0.23	2.1	1
01657	Magnesium	7439-95-4	4,710	2.65	10.4	1
06958	Manganese	7439-96-5	174	0.0813	0.521	1
10145	Phosphorus	7723-14-0	280	0.583	10.4	1
01662	Potassium	7440-09-7	1,720	18.8	52.1	1
01667	Sodium	7440-23-5	384	38.9	104	1
07968	Strontium	7440-24-6	29.3	0.0646	0.521	1
06969	Tin	7440-31-5	2.47 J	1.04	10.4	1
06970	Titanium	7440-32-6	1,120	0.784	2.06	2
10146	Zirconium	7440-67-7	2.97 J	0.875	5.21	1
SW-846 6020						
06124	Antimony	7440-36-0	0.167 J	0.0631	0.210	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.3	0.0631	0.421	2
06126	Barium	7440-39-3	116	0.114	0.421	2
06127	Beryllium	7440-41-7	0.702	0.0168	0.105	2
06128	Cadmium	7440-43-9	0.0633 J	0.0379	0.105	2
06131	Chromium	7440-47-3	21.9	0.126	0.421	2
06132	Cobalt	7440-48-4	13.8	0.0210	0.105	2
06133	Copper	7440-50-8	9.41	0.0694	0.421	2
06135	Lead	7439-92-1	5.65	0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.379	0.0526	0.105	2

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



Analysis Report

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

Sample Description: SL-081-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-081-SA5C-SB-3.0-4.0

LLI Sample # SW 6144597
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 13:56 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08145 SDG#: DE018-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06139	Nickel	7440-02-0	11.8	0.105	0.421	2
06141	Selenium	7782-49-2	0.228 J	0.0421	0.421	2
06142	Silver	7440-22-4	0.0126 U	0.0126	0.105	2
06145	Thallium	7440-28-0	0.176	0.0316	0.105	2
06148	Vanadium	7440-62-2	46.0	0.0231	0.105	2
06149	Zinc	7440-66-6	64.7	0.589	3.16	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.102	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.3	0.85	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	31.9	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	454	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.34	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	28a Total Solids by 160.3	n.a.	5.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-081-SA5C-SB-4.5.

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

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

Sample Description: SL-081-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-081-SA5C-SB-3.0-4.0

LLI Sample # SW 6144597
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 13:56 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08145 SDG#: DE018-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103232AA	11/19/2010 18:10	Kenneth L Boley Jr	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103232AA	11/19/2010 19:29	Jason M Long	23.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032223019	11/18/2010 17:59	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201032223019	11/18/2010 18:13	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201032223019	11/18/2010 18:13	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032223019	11/18/2010 17:56	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/03/2010 18:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 11:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 01:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 02:58	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 18:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 18:57	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 18:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 02:58	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 18:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 18:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 02:58	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 02:58	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 02:58	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 02:58	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 02:58	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 08:00	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 02:58	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 12:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010 12:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010 12:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/24/2010 09:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010 12:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010 06:17	Damary Valentin	1

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

Sample Description: SL-081-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-081-SA5C-SB-3.0-4.0

LLI Sample # SW 6144597
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 13:56 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

08145 SDG#: DE018-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010 21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010 10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201B	12/04/2010 03:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10330330201B	11/29/2010 18:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 13:00	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201B	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10330330201B	11/26/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103B	11/18/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10322039403B	11/18/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10327162401B	11/24/2010 05:21	William C Schwebel	1

Sample Description: TB-111710 Water
 SSFL Area IV Collocated Soil Sampling
 TB-111710

LLI Sample # WW 6144598
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 16:00 by PH

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

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

TB117 SDG#: DE018-07TB

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

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



Analysis Report

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

Sample Description: TB-111710 Water
SSFL Area IV Collocated Soil Sampling
TB-111710

LLI Sample # WW 6144598
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 16:00 by PH

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

TB117 SDG#: DE018-07TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2 U	2	5	1
10904	n-Propylbenzene	103-65-1	1 U	1	5	1
10904	Styrene	100-42-5	1 U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1 U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1 U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8 U	0.8	5	1
10904	Toluene	108-88-3	0.7 U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1 U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8 U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8 U	0.8	5	1
10904	Trichloroethene	79-01-6	1 U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2 U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1 U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1 U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1 U	1	5	1
10904	Vinyl Chloride	75-01-4	1 U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8 U	0.8	5	1
10904	o-Xylene	95-47-6	0.8 U	0.8	5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5 U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103263AA	11/22/2010 07:03	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103231AA	11/19/2010 12:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103231AA	11/19/2010 12:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103263AA	11/22/2010 07:03	Holly Berry	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-4.0-5.0

LLI Sample # SW 6144599
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:28 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07245 SDG#: DE018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8 U	6.8	8.1	0.94
06192	Benzene	71-43-2	0.10 U	0.10	4.1	0.94
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1	0.94
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.1	0.94
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1	0.94
06192	Bromoform	75-25-2	0.41 U	0.41	4.1	0.94
06192	Bromomethane	74-83-9	0.25 U	0.25	4.1	0.94
06192	2-Butanone	78-93-3	1.2 U	1.2	8.1	0.94
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1	0.94
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1	0.94
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.1	0.94
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1	0.94
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1	0.94
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1	0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.1	0.94
06192	Chloroform	67-66-3	0.12 U	0.12	4.1	0.94
06192	Chloromethane	74-87-3	0.33 U	0.33	4.1	0.94
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1	0.94
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1	0.94
06192	Chlorotrifluoroethene	79-38-9	0.51 U	0.51	5.1	0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71 U	0.71	4.1	0.94
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.1	0.94
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.1	0.94
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.1	0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1	0.94
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1	0.94
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.1	0.94
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1	0.94
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1	0.94
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.1	0.94
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1	0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.1	0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1	0.94
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.1	0.94
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1	0.94
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.1	0.94
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1	0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.1	0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.1	0.94
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1	0.94
06192	Freon 113	76-13-1	0.11 U	0.11	4.1	0.94
06192	Freon 133a	75-88-7	0.51 U	0.51	5.1	0.94
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1	0.94
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.1	0.94
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1	0.94
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1	0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.1	0.94
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.1	0.94
06192	Methylene Chloride	75-09-2	2.5 J	0.24	4.1	0.94
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1	0.94

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-4.0-5.0

LLI Sample # SW 6144599
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:28 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07245 SDG#: DE018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.10 U	0.10	4.1	0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1	0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.1	0.94
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.1	0.94
06192	Toluene	108-88-3	0.08 U	0.08	4.1	0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1	0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.1	0.94
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.1	0.94
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.1	0.94
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.1	0.94
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.1	0.94
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.1	0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1	0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1	0.94
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.1	0.94
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.1	0.94
06192	o-Xylene	95-47-6	0.17 U	0.17	4.1	0.94
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.0 U	5.0	15	23.06
GC/MS Semivolatiles EPA 1625C						
11622	N-Nitrosodimethylamine	62-75-9	71.7	18.0	36.0	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 73 ng/kg. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	180	U 180	540	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U 180	540	1
04688	Benzyl alcohol	100-51-6	180	U 180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180	1
04688	Carbazole	86-74-8	18	U 18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180	1
04688	4-Chloroaniline	106-47-8	72	U 72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180	1
04688	2-Chlorophenol	95-57-8	18	U 18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180	1
04688	Dibenzofuran	132-64-9	18	U 18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-4.0-5.0

LLI Sample # SW 6144599
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:28 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07245 SDG#: DE018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U 720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180	1
04688	Hexachlorobenzene	118-74-1	18	U 18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540	1
04688	Hexachloroethane	67-72-1	18	U 18	180	1
04688	Isophorone	78-59-1	18	U 18	180	1
04688	2-Methylphenol	95-48-7	36	U 36	180	1
04688	4-Methylphenol	106-44-5	36	U 36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	18	U 18	180	1
04688	3-Nitroaniline	99-09-2	36	U 36	180	1
04688	4-Nitroaniline	100-01-6	72	U 72	180	1
04688	Nitrobenzene	98-95-3	18	U 18	180	1
04688	2-Nitrophenol	88-75-5	18	U 18	180	1
04688	4-Nitrophenol	100-02-7	180	U 180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	180	U 180	540	1
04688	Phenol	108-95-2	18	U 18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U 0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U 0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U 0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U 0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U 0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	19	1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-4.0-5.0

LLI Sample # SW 6144599
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:28 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07245 SDG#: DE018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/kg	ug/kg	ug/kg	
10138	Dibenz(a,h)anthracene	53-70-3	0.72 U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5 U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5 U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5 U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72 U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72 U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72 U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72 U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72 U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72 U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8	1
GC Volatiles TPH GRO SW-846 8015B mod						
			mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1	22.81
Explosives SW-846 8330A						
			ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81 U	81	160	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1
10132	HMX	2691-41-0	130 U	130	400	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1
10132	3-Nitrotoluene	99-08-1	130 U	130	160	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1
10132	PETN	78-11-5	1,100 U	1,100	3,200	1
10132	RDX	121-82-4	67 U	67	160	1
10132	Tetryl	479-45-8	83 U	83	160	1
10132	1,3,5-Trinitrobenzene	99-35-4	54 U	54	160	1
10132	2,4,6-Trinitrotoluene	118-96-7	54 U	54	160	1
HPLC Organics SW-846 8315A						
			ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	650 U	650	1,600	1
Pesticides/PCBs SW-846 8082						
			ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-4.0-5.0

LLI Sample # SW 6144599
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:28 by PH

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 14420 Albemarle Point Place
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Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07245 SDG#: DE018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs						
	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	PCB-1232	11141-16-5	0.56 U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.8	1
GC Extractable TPH						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	1.1 J	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	24	0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	20	0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43 U	0.43	1.3	1
GC Miscellaneous						
	SW-846 8015B		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	110	540	1
10501	Isopropanol	67-63-0	110 U	110	540	1
10501	Methanol	67-56-1	110 U	110	540	1
GC Miscellaneous						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4 U	5.4	13	1
08283	Ethylene glycol	107-21-1	5.4 U	5.4	13	1
08283	Propylene glycol	57-55-6	5.4 U	5.4	13	1
<p>The samples were run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.</p> <p>Diethylene glycol in the calibration check standard injected after the sample was outside the 15%D acceptance criteria. This effect is attributed to the sample matrix and the data is reported.</p>						
Terphenyls						
	SW-846 8015B		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6 U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6 U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6 U	1.6	3.8	1
Misc. Organics						
	SW-846 8315A modified		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2 U	2.2	5.4	1
10346	Hydrazine	302-01-2	0.54 U	0.54	2.2	1
10346	Methylhydrazine	60-34-4	2.2 U	2.2	5.4	1
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,500	5.27	20.9	1
07914	Boron	7440-42-8	9.64	0.932	5.24	1

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Sample Description: SL-072-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-4.0-5.0

LLI Sample # SW 6144599
 LLI Group # 1221905
 Account # 13013

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07245 SDG#: DE018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01650	Calcium	7440-70-2	3,070	6.42	20.9	1
01654	Iron	7439-89-6	22,500	4.93	20.9	1
01656	Lithium	7439-93-2	20.0	0.23	2.1	1
01657	Magnesium	7439-95-4	4,210	2.66	10.5	1
06958	Manganese	7439-96-5	160	0.0817	0.524	1
10145	Phosphorus	7723-14-0	88.8	0.587	10.5	1
01662	Potassium	7440-09-7	1,690	18.9	52.4	1
01667	Sodium	7440-23-5	193	39.1	105	1
07968	Strontium	7440-24-6	30.8	0.0649	0.524	1
06969	Tin	7440-31-5	2.42 J	1.05	10.5	1
06970	Titanium	7440-32-6	1,060	0.820	2.16	2
10146	Zirconium	7440-67-7	3.93 J	0.880	5.24	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0975 J	0.0641	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.22	0.0641	0.427	2
06126	Barium	7440-39-3	171	0.115	0.427	2
06127	Beryllium	7440-41-7	0.664	0.0171	0.107	2
06128	Cadmium	7440-43-9	0.0555 J	0.0385	0.107	2
06131	Chromium	7440-47-3	25.7	0.128	0.427	2
06132	Cobalt	7440-48-4	7.49	0.0214	0.107	2
06133	Copper	7440-50-8	9.73	0.0705	0.427	2
06135	Lead	7439-92-1	7.89	0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.246	0.0534	0.107	2
06139	Nickel	7440-02-0	14.2	0.107	0.427	2
06141	Selenium	7782-49-2	0.0895 J	0.0427	0.427	2
06142	Silver	7440-22-4	0.0476 J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.271	0.0320	0.107	2
06148	Vanadium	7440-62-2	47.7	0.0235	0.107	2
06149	Zinc	7440-66-6	49.9	0.598	3.20	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0068 J	0.0029	0.102	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9	0.86	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5 J	0.86	1.6	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.4	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-4.0-5.0

LLI Sample # SW 6144599
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:28 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07245 SDG#: DE018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry SW-846 9012B						
05895	21a Cyanide by 9012B	57-12-5	0.19 U	mg/kg	0.53	1
ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	478	mV	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
00394	22a pH by 9045C	n.a.	7.84	Std. Units	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	28a Total Solids by 160.3	n.a.	7.3	%	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-072-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103232AA	11/19/2010 18:33	Kenneth L Boley Jr	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103232AA	11/19/2010 19:49	Jason M Long	23.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032223019	11/18/2010 18:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201032223019	11/18/2010 18:13	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201032223019	11/18/2010 18:13	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032223019	11/18/2010 18:07	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/21/2010 20:20	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/03/2010 18:32	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 11:57	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-4.0-5.0

LLI Sample # SW 6144599
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:28 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07245 SDG#: DE018-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10326A34A	11/22/2010 13:23	Marie D John	22.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032223019	11/18/2010 18:26	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103270005A	12/01/2010 11:49	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 18:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 01:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103270005A	11/23/2010 13:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103260038A	12/02/2010 07:20	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103270004A	11/24/2010 14:04	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 19:24	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103260011A	12/01/2010 04:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103260038A	11/23/2010 08:15	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103260011A	11/22/2010 18:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103270004A	11/24/2010 12:30	Marie D John	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10323003	11/23/2010 00:59	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 03:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 19:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 19:00	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 19:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 03:01	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 19:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 19:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 03:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 03:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 03:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 03:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 03:01	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 08:04	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 03:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 12:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 12:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 12:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010 11:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010 12:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010 12:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010 12:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010 12:25	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-4.0-5.0

LLI Sample # SW 6144599
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:28 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07245 SDG#: DE018-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010	12:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/24/2010	09:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010	12:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010	12:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010	12:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010	12:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010	12:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010	12:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010	06:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010	21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010	10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010	21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010	01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201B	12/04/2010	03:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10336336201B	12/04/2010	03:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10336336202A	12/06/2010	15:46	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010	13:14	William L Hamaker Jr	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10335102201A	12/01/2010	20:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201B	12/02/2010	12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10336336202A	12/02/2010	13:45	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10335102201A	12/01/2010	17:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103B	11/18/2010	13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10322039403B	11/18/2010	13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010	20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010	11:42	William C Schwebel	1

Sample Description: SL-072-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-7.5-8.5

LLI Sample # SW 6144600
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:30 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07278 SDG#: DE018-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	118	18.6	37.1	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 91 ng/kg. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	560	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U 190	560	1
04688	Benzyl alcohol	100-51-6	190	U 190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	190	1
04688	4-Chloroaniline	106-47-8	74	U 74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U 740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J 19	370	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	37	U 37	190	1
04688	4-Methylphenol	106-44-5	37	U 37	190	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	37	U 37	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-7.5-8.5

LLI Sample # SW 6144600
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:30 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07278 SDG#: DE018-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	74	U 74	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U 0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U 0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U 0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U 0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U 6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U 0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U 0.74	1.9	1
Explosives	SW-846 8330A	ug/kg	ug/kg	ug/kg		
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U 84	170	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U 56	170	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1
10132	1,3-Dinitrobenzene	99-65-0	56	U 56	170	1
10132	2,4-Dinitrotoluene	121-14-2	56	U 56	170	1
10132	2,6-Dinitrotoluene	606-20-2	56	U 56	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-7.5-8.5

LLI Sample # SW 6144600
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:30 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07278 SDG#: DE018-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Explosives						
	SW-846 8330A		ug/kg	ug/kg	ug/kg	
10132	HMX	2691-41-0	140	U 140	420	1
10132	Nitrobenzene	98-95-3	56	U 56	170	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1
10132	RDX	121-82-4	70	U 70	170	1
10132	Tetryl	479-45-8	85	U 85	170	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U 56	170	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U 56	170	1
HPLC Organics						
	SW-846 8315A		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	670	U 670	1,700	1
Pesticides/PCBs						
	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.7	1
10225	Aroclor 5460	11126-42-4	26	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U 0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U 0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U 0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U 0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U 0.37	1.9	1
10225	PCB-1254	11097-69-1	8.9	0.37	1.9	1
10225	PCB-1260	11096-82-5	4.1	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U 0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U 0.37	1.9	1
GC Extractable TPH						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U 0.45	1.3	1
10199	EFH (C15-C20)	n.a.	0.45	U 0.45	1.3	1
10199	EFH (C21-C30)	n.a.	5.2	0.45	1.3	1
10199	EFH (C30 - C40)	n.a.	6.4	0.45	1.3	1
10199	EFH (C8-C11)	n.a.	0.45	U 0.45	1.3	1
GC Miscellaneous						
	SW-846 8015B		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	220	J 110	560	1
10501	Isopropanol	67-63-0	110	U 110	560	1
10501	Methanol	67-56-1	250	J 110	560	1
GC Miscellaneous						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U 5.6	14	1
08283	Ethylene glycol	107-21-1	5.6	U 5.6	14	1
08283	Propylene glycol	57-55-6	5.6	U 5.6	14	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-7.5-8.5

LLI Sample # SW 6144600
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:30 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07278 SDG#: DE018-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<p>The samples were run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.</p> <p>The surrogate data is outside the QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to the re-extraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.</p> <p>Diethylene glycol in the calibration check standard injected after the sample was outside the 15%D acceptance criteria. This effect is attributed to the sample matrix and the data is reported.</p>						
Terphenyls		SW-846 8015B	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U	1.7	3.9	1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	3.9	1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	3.9	1
Misc. Organics		SW-846 8315A modified	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2 U	2.2	5.6	1
10346	Hydrazine	302-01-2	0.56 U	0.56	2.2	1
10346	Methylhydrazine	60-34-4	2.2 U	2.2	5.6	1
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,400	5.44	21.6	1
07914	Boron	7440-42-8	8.05	0.962	5.41	1
01650	Calcium	7440-70-2	2,850	6.63	21.6	1
01654	Iron	7439-89-6	19,700	5.09	21.6	1
01656	Lithium	7439-93-2	20.5	0.24	2.2	1
01657	Magnesium	7439-95-4	3,400	2.75	10.8	1
06958	Manganese	7439-96-5	169	0.0843	0.541	1
10145	Phosphorus	7723-14-0	199	0.605	10.8	1
01662	Potassium	7440-09-7	1,560	19.5	54.1	1
01667	Sodium	7440-23-5	244	40.3	108	1
07968	Strontium	7440-24-6	25.3	0.0670	0.541	1
06969	Tin	7440-31-5	2.41 J	1.08	10.8	1
06970	Titanium	7440-32-6	1,010	0.806	2.12	2
10146	Zirconium	7440-67-7	3.01 J	0.908	5.41	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.155 J	0.0649	0.216	2
<p>Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.</p>						
06125	Arsenic	7440-38-2	5.62	0.0649	0.432	2
06126	Barium	7440-39-3	84.3	0.117	0.432	2
06127	Beryllium	7440-41-7	0.569	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.0549 J	0.0389	0.108	2
06131	Chromium	7440-47-3	20.8	0.130	0.432	2
06132	Cobalt	7440-48-4	5.44	0.0216	0.108	2
06133	Copper	7440-50-8	9.04	0.0714	0.432	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-7.5-8.5

LLI Sample # SW 6144600
 LLI Group # 1221905
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:30 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07278 SDG#: DE018-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	6.25	0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.395	0.0541	0.108	2
06139	Nickel	7440-02-0	12.3	0.108	0.432	2
06141	Selenium	7782-49-2	0.0645 J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0489 J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.211	0.0324	0.108	2
06148	Vanadium	7440-62-2	38.5	0.0238	0.108	2
06149	Zinc	7440-66-6	48.6	0.605	3.24	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 J	0.0031	0.108	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1	0.89	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.7	0.89	1.7	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36 J	0.22	1.1	1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	470	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.23	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	28a Total Solids by 160.3	n.a.	10.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-7.5-8.5

LLI Sample # SW 6144600
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:30 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07278 SDG#: DE018-09*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/21/2010 21:29	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/03/2010 18:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 12:31	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
10132	20a Energetics by 8330A	SW-846 8330A	1	103270005A	12/01/2010 13:57	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 19:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 01:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103270005A	11/23/2010 13:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103260038A	12/02/2010 08:37	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103270004A	11/24/2010 14:49	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 19:08	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103260011A	12/01/2010 05:06	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103260038A	11/23/2010 08:15	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103260011A	11/22/2010 18:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103270004A	11/24/2010 12:30	Marie D John	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10323003	11/23/2010 01:19	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103225708004	11/20/2010 03:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103225708004	11/20/2010 19:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708004	11/20/2010 19:04	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708004	11/20/2010 19:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	103225708004	11/20/2010 03:05	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103225708004	11/20/2010 19:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708004	11/20/2010 19:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103225708004	11/20/2010 03:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103225708004	11/20/2010 03:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103225708004	11/20/2010 03:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103225708004	11/20/2010 03:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103225708004	11/20/2010 03:05	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103265708002	11/24/2010 08:07	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103225708004	11/20/2010 03:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103221026002A	11/22/2010 12:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103221026002A	11/22/2010 12:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103221026002D	11/22/2010 12:29	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SB-7.5-8.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-072-SA5C-SB-7.5-8.5

LLI Sample # SW 6144600
LLI Group # 1221905
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2010 15:30 by PH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 11/18/2010 09:00

Reported: 01/04/2011 09:11

07278 SDG#: DE018-09*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103221026002A	11/24/2010	11:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103221026002A	11/22/2010	12:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103221026002A	11/22/2010	12:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103221026002A	11/22/2010	12:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103221026002A	11/22/2010	12:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103221026002A	11/22/2010	12:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103221026002C	11/22/2010	12:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103221026002A	11/22/2010	12:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103221026002B	11/22/2010	12:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103221026002A	11/22/2010	12:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103221026002A	11/22/2010	12:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103221026002A	11/22/2010	12:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103221026002A	11/22/2010	12:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103225711004	11/19/2010	06:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708004	11/18/2010	21:16	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708002	11/22/2010	10:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103221026002	11/18/2010	21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711004	11/19/2010	01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201B	12/04/2010	04:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10336336201B	12/04/2010	04:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10336336202A	12/06/2010	16:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010	13:28	William L Hamaker Jr	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10335102201A	12/01/2010	20:44	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201B	12/02/2010	12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10336336202A	12/02/2010	13:45	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10335102201A	12/01/2010	17:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10322182103B	11/18/2010	13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10322039403B	11/18/2010	13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010	20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010	11:42	William C Schwebel	1

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/04/11 at 09:11 AM

Group Number: 1221905

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B103232AA	Sample number(s): 6144589, 6144594, 6144597, 6144599								
Acetone	6.7 U	6.7	8.0	ug/kg	179	179	32-209	0	30
Benzene	0.10 U	0.10	4.0	ug/kg	101	99	80-120	2	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	97	95	79-120	2	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	130*	127*	79-124	2	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	96	95	78-120	1	30
Bromoform	0.40 U	0.40	4.0	ug/kg	86	85	70-120	1	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	90	89	32-162	2	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	120	120	46-153	0	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	108	104	72-120	4	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	109	106	75-120	3	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	96	95	75-120	2	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	90	88	69-122	2	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	98	96	80-120	2	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	91	88	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	96	94	43-146	2	30
Chloroform	0.12 U	0.12	4.0	ug/kg	101	98	80-120	3	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	88	86	54-132	3	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	101	99	78-120	2	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	102	99	79-120	3	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	108	102	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	98	99	58-120	1	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	93	92	77-120	1	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	96	96	80-120	0	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	99	97	80-120	2	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	98	95	79-120	3	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	98	95	78-120	2	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	99	95	79-120	3	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	68	65	20-120	3	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	100	99	80-120	1	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	99	97	71-129	2	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	98	95	73-123	3	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	97	95	80-120	2	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	86	90	79-120	4	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	101	99	80-120	1	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	101	102	80-120	0	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	79	79	72-123	1	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	98	97	77-120	2	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	91	89	80-120	2	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	88	86	77-120	2	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	101	99	80-120	2	30
Freon 113	0.11 U	0.11	4.0	ug/kg	102	97	61-126	5	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	89	85	78-120	5	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	97	95	57-120	3	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	106	107	45-155	1	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	98	95	76-120	3	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	106	101	75-120	4	30

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/04/11 at 09:11 AM

Group Number: 1221905

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	88	92	74-121	4	30
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	100	98	61-134	2	30
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	96	94	76-124	2	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	113	110	77-120	3	30
Styrene	0.10 U	0.10	4.0	ug/kg	95	93	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	92	90	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	108	105	71-123	2	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	91	90	77-120	1	30
Toluene	0.08 U	0.08	4.0	ug/kg	99	97	80-120	2	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	94	92	64-120	2	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	92	89	68-120	3	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	92	90	71-125	2	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	97	96	80-120	2	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	97	94	80-120	4	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	96	92	58-133	4	30
1,2,3-Trimethylpropane	0.33 U	0.33	4.0	ug/kg	103	101	71-123	2	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	106	104	79-120	2	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	105	102	78-120	2	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	84	82	53-120	3	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	97	94	80-120	2	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	94	92	80-120	2	30
Batch number: E103231AA Sample number(s): 6144598									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	98		60-132		
Batch number: E103232AA Sample number(s): 6144589,6144594,6144597,6144599									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	97	97	70-130	0	30
Batch number: Y103263AA Sample number(s): 6144598									
Acetone	6 U	6.	20	ug/l	192	193	49-234	1	30
Benzene	0.5 U	0.5	5	ug/l	95	94	79-120	2	30
Bromobenzene	1 U	1.	5	ug/l	105	105	80-120	0	30
Bromochloromethane	1 U	1.	5	ug/l	93	90	80-120	3	30
Bromodichloromethane	1 U	1.	5	ug/l	91	89	80-120	2	30
Bromoform	1 U	1.	5	ug/l	90	99	61-120	10	30
Bromomethane	1 U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3 U	3.	10	ug/l	119	118	66-151	1	30
n-Butylbenzene	1 U	1.	5	ug/l	100	99	74-120	1	30
sec-Butylbenzene	1 U	1.	5	ug/l	107	107	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	100	99	80-120	2	30
Carbon Tetrachloride	1 U	1.	5	ug/l	93	90	75-123	3	30
Chlorobenzene	0.8 U	0.8	5	ug/l	96	94	80-120	2	30
Chloroethane	1 U	1.	5	ug/l	95	90	49-129	6	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	107	107	56-129	1	30
Chloroform	0.8 U	0.8	5	ug/l	96	94	77-122	2	30
Chloromethane	1 U	1.	5	ug/l	91	87	60-129	4	30
2-Chlorotoluene	1 U	1.	5	ug/l	107	103	80-120	4	30
4-Chlorotoluene	1 U	1.	5	ug/l	100	97	80-120	3	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	119	112	38-136	6	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	112	108	66-120	3	30
Dibromochloromethane	1 U	1.	5	ug/l	94	92	80-120	2	30
1,2-Dibromoethane	1 U	1.	5	ug/l	101	99	80-120	2	30
Dibromomethane	1 U	1.	5	ug/l	96	92	80-120	4	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	95	80-120	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	102	100	80-120	2	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	70	68	47-120	2	30
1,1-Dichloroethane	1 U	1.	5	ug/l	98	96	79-120	2	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/04/11 at 09:11 AM

Group Number: 1221905

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dichloroethane	1 U	1.	5	ug/l	93	91	70-130	2	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	107	106	74-123	1	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	95	80-120	2	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	94	80-120	3	30
1,2-Dichloropropane	1 U	1.	5	ug/l	94	92	78-120	2	30
1,3-Dichloropropane	1 U	1.	5	ug/l	99	98	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	86	84	77-124	2	30
1,1-Dichloropropene	1 U	1.	5	ug/l	95	94	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	87	85	80-120	2	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	90	89	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	98	96	79-120	2	30
Freon 113	2 U	2.	10	ug/l	113	114	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	101	93	77-120	8	30
Hexachlorobutadiene	2 U	2.	5	ug/l	98	95	58-120	3	30
2-Hexanone	3 U	3.	10	ug/l	116	114	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	97	95	77-120	2	30
p-Isopropyltoluene	1 U	1.	5	ug/l	106	103	80-120	3	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	94	76-120	1	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	98	93	70-121	5	30
Methylene Chloride	2 U	2.	5	ug/l	86	82	80-120	5	30
n-Propylbenzene	1 U	1.	5	ug/l	110	108	80-120	2	30
Styrene	1 U	1.	5	ug/l	98	107	80-120	8	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	97	94	80-120	3	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	110	109	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	96	94	80-121	2	30
Toluene	0.7 U	0.7	5	ug/l	98	98	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	100	99	65-120	1	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	99	98	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	95	94	75-127	1	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	99	97	80-120	3	30
Trichloroethene	1 U	1.	5	ug/l	94	91	80-120	4	30
Trichlorofluoromethane	2 U	2.	5	ug/l	94	92	64-129	1	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	111	109	80-120	2	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	106	106	74-120	0	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	105	102	75-120	3	30
Vinyl Chloride	1 U	1.	5	ug/l	83	82	65-125	0	30
m+p-Xylene	0.8 U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8 U	0.8	5	ug/l	95	92	80-120	3	30

Batch number: 10323SLC026	Sample number(s): 6144589-6144591,6144593-6144597,6144599-6144600
Acenaphthene	17 U 17. 170 ug/kg 91 76-111
Acenaphthylene	17 U 17. 170 ug/kg 91 75-122
Aniline	170 U 170. 500 ug/kg 64 10-107
Anthracene	17 U 17. 170 ug/kg 96 76-112
Benzidine	1,200 U 1,200. 3,300 ug/kg 33 15-121
Benzo(a)anthracene	17 U 17. 170 ug/kg 96 73-112
Benzo(a)pyrene	17 U 17. 170 ug/kg 120 69-122
Benzo(b)fluoranthene	17 U 17. 170 ug/kg 122 61-127
Benzo(g,h,i)perylene	17 U 17. 170 ug/kg 115 65-122
Benzo(k)fluoranthene	17 U 17. 170 ug/kg 123 67-125
Benzoic acid	170 U 170. 500 ug/kg 95 10-154
Benzyl alcohol	170 U 170. 500 ug/kg 96 68-111
4-Bromophenyl-phenylether	17 U 17. 170 ug/kg 97 79-117
Butylbenzylphthalate	17 U 17. 170 ug/kg 102 75-115

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/04/11 at 09:11 AM

Group Number: 1221905

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Di-n-butylphthalate	17	U	170	ug/kg	97		79-112		
Carbazole	17	U	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	170	ug/kg	96		74-119		
4-Chloroaniline	67	U	170	ug/kg	32		10-110		
bis(2-Chloroethoxy)methane	17	U	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	170	ug/kg	84		68-131		
2-Chloronaphthalene	17	U	170	ug/kg	92		67-127		
2-Chlorophenol	17	U	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	170	ug/kg	98		79-110		
Chrysene	17	U	170	ug/kg	97		76-113		
Dibenz(a,h)anthracene	17	U	170	ug/kg	118		70-128		
Dibenzofuran	17	U	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100	U	330	ug/kg	69		38-105		
2,4-Dichlorophenol	17	U	170	ug/kg	96		75-111		
Diethylphthalate	17	U	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	170	ug/kg	110		70-130		
Dimethylphthalate	17	U	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170	U	500	ug/kg	65		53-110		
2,4-Dinitrophenol	670	U	2,000	ug/kg	63		37-120		
2,4-Dinitrotoluene	33	U	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	170	ug/kg	94		77-111		
bis(2-Ethylhexyl)phthalate	17	U	330	ug/kg	102		75-117		
Fluoranthene	17	U	170	ug/kg	93		78-116		
Fluorene	17	U	170	ug/kg	96		75-116		
Hexachlorobenzene	17	U	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170	U	500	ug/kg	86		46-115		
Hexachloroethane	17	U	170	ug/kg	88		68-105		
Indeno(1,2,3-cd)pyrene	17	U	170	ug/kg	116		64-119		
Isophorone	17	U	170	ug/kg	87		69-110		
1-Methylnaphthalene	17	U	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	170	ug/kg	87		76-105		
2-Methylphenol	33	U	170	ug/kg	95		66-110		
4-Methylphenol	33	U	170	ug/kg	90		66-117		
Naphthalene	17	U	170	ug/kg	89		73-106		
2-Nitroaniline	17	U	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	170	ug/kg	85		62-109		
4-Nitroaniline	67	U	170	ug/kg	67		49-98		
Nitrobenzene	17	U	170	ug/kg	87		71-104		
2-Nitrophenol	17	U	170	ug/kg	90		81-114		
4-Nitrophenol	170	U	500	ug/kg	83		56-118		
N-Nitroso-di-n-propylamine	17	U	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	170	ug/kg	87		60-106		
N-Nitrosodiphenylamine	17	U	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	170	ug/kg	132*		68-130		
Pentachlorophenol	170	U	500	ug/kg	90		35-106		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/04/11 at 09:11 AM

Group Number: 1221905

<u>Analysis Name</u>	<u>Blank Result</u>		<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	91		58-112		
Pyrene	17	U	17.	170	ug/kg	100		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 10324SLD026 Sample number(s): 6144589-6144591,6144593-6144597,6144599-6144600										
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	117		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	134		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	127		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	101		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	114		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	107		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	109		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	108		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	108		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	107		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	99		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	125		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 10333SLD026 Sample number(s): 6144599-6144600										
N-Nitrosodimethylamine	32.8	J	16.7	33.3	ng/kg	97		70-130		
Batch number: 10326A34A Sample number(s): 6144599										
9a TPH by EPA 8015B Gas	0.2	U	0.2	1.0	mg/kg	72	71	67-119	1	30
Batch number: 103270005A Sample number(s): 6144599-6144600										
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	110		80-120		
2,6-Diamino-4-nitrotoluene	100	U	100.	300	ug/kg	101	91	54-134	10	30
2,4-Diamino-6-nitrotoluene	100	U	100.	300	ug/kg	100	91	54-134	10	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	107		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	106		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	110		80-120		
HMX	130	U	130.	380	ug/kg	98		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	103		80-120		
Nitroglycerin	1,000	U	1,000.	3,000	ug/kg	93		80-120		
2-Nitrotoluene	100	U	100.	150	ug/kg	111		78-128		
3-Nitrotoluene	130	U	130.	150	ug/kg	108		73-127		

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/04/11 at 09:11 AM

Group Number: 1221905

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
4-Nitrotoluene	U 100	100.	150	ug/kg	107		80-120		
PETN	U 1,000	1,000.	3,000	ug/kg	106		80-120		
RDX	63	U 63.	150	ug/kg	104		75-131		
Tetryl	77	U 77.	150	ug/kg	122		70-168		
1,3,5-Trinitrobenzene	50	U 50.	150	ug/kg	118		77-137		
2,4,6-Trinitrotoluene	50	U 50.	150	ug/kg	108		80-120		
Batch number: 103300006A 17a Formaldehyde by 8315A	U 600	600.	1,500	ug/kg	103		80-126		
Batch number: 103240013A 6a Perchlorate EPA 6850	U 2.1	2.1	5.0	ug/kg	98		70-130		
Batch number: 103260008A Aroclor 5432	U 1.0	1.0	3.3	ug/kg					
Aroclor 5442	U 1.0	1.0	3.3	ug/kg	98	88	75-125	11	30
Aroclor 5460	U 1.0	1.0	3.3	ug/kg					
PCB-1016	U 0.33	0.33	1.7	ug/kg	100		72-120		
PCB-1221	U 0.50	0.50	1.7	ug/kg					
PCB-1232	U 0.52	0.52	1.7	ug/kg					
PCB-1242	U 0.50	0.50	1.7	ug/kg					
PCB-1248	U 0.33	0.33	1.7	ug/kg					
PCB-1254	U 0.33	0.33	1.7	ug/kg					
PCB-1260	U 0.33	0.33	1.7	ug/kg	124		65-137		
PCB-1262	U 0.33	0.33	1.7	ug/kg					
PCB-1268	U 0.33	0.33	1.7	ug/kg					
Batch number: 103260038A EFH (C12-C14)	U 0.40	0.40	1.2	mg/kg	90		66-113		
EFH (C15-C20)	U 0.40	0.40	1.2	mg/kg	94		66-113		
EFH (C21-C30)	U 0.40	0.40	1.2	mg/kg	93		66-113		
EFH (C30 - C40)	U 0.40	0.40	1.2	mg/kg	82		66-113		
EFH (C8-C11)	U 0.40	0.40	1.2	mg/kg	69		66-113		
Batch number: 103270004A Ethanol	U 100	100.	500	ug/kg	112		75-112		
Isopropanol	U 100	100.	500	ug/kg	106		75-125		
Methanol	U 100	100.	500	ug/kg	121		75-134		
Batch number: 103350011A Diethylene glycol	U 5.0	5.0	13	mg/kg	97		75-125		
Ethylene glycol	U 5.0	5.0	13	mg/kg	105		75-125		
Propylene glycol	U 5.0	5.0	13	mg/kg	96		75-125		
Batch number: 103260011A m-Terphenyl	U 1.5	1.5	3.5	mg/kg	99	99	75-125	0	20
o-Terphenyl	U 1.5	1.5	3.5	mg/kg	102	102	75-125	0	20
p-Terphenyl	U 1.5	1.5	3.5	mg/kg	99	98	75-125	1	20
Batch number: 10323003 1,1-Dimethylhydrazine	U 2.0	2.0	5.0	ng/g	102	120	70-130	16	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/04/11 at 09:11 AM

Group Number: 1221905

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Hydrazine	0.50 U	0.50	2.0	ng/g	100	104	70-130	5	30
Methylhydrazine	2.0 U	2.0	5.0	ng/g	100	97	70-130	3	30

Batch number: 103221026002A	Sample number(s): 6144589-6144597,6144599-6144600
Antimony	0.0600 U 0.0600 0.200 mg/kg 108 11-208
Arsenic	0.0600 U 0.0600 0.400 mg/kg 108 80-120
Beryllium	0.0160 U 0.0160 0.100 mg/kg 103 82-118
Cadmium	0.0360 U 0.0360 0.100 mg/kg 111 82-118
Chromium	0.120 U 0.120 0.400 mg/kg 104 80-120
Cobalt	0.0200 U 0.0200 0.100 mg/kg 103 82-118
Copper	0.0660 U 0.0660 0.400 mg/kg 103 80-120
Lead	0.0104 U 0.0104 0.200 mg/kg 118 80-120
Nickel	0.100 U 0.100 0.400 mg/kg 103 80-120
Silver	0.0120 U 0.0120 0.100 mg/kg 106 66-134
Thallium	0.0300 U 0.0300 0.100 mg/kg 102 81-119
Vanadium	0.0220 U 0.0220 0.100 mg/kg 91 90-110
Zinc	0.560 U 0.560 3.00 mg/kg 106 78-122

Batch number: 103221026002B	Sample number(s): 6144589-6144597,6144599-6144600
Selenium	0.0400 U 0.0400 0.400 mg/kg 107 79-122

Batch number: 103221026002C	Sample number(s): 6144589-6144597,6144599-6144600
Molybdenum	0.0500 U 0.0500 0.100 mg/kg 114 78-122

Batch number: 103221026002D	Sample number(s): 6144589-6144597,6144599-6144600
Barium	0.108 U 0.108 0.400 mg/kg 109 79-121

Batch number: 103225708004	Sample number(s): 6144589-6144597,6144599-6144600
Aluminum	7.99 J 5.03 20.0 mg/kg 85 61-110
Boron	0.890 U 0.890 5.00 mg/kg 92 78-110
Calcium	11.5 J 6.13 20.0 mg/kg 92 88-110
Iron	4.71 U 4.71 20.0 mg/kg 89 61-110
Lithium	0.22 U 0.22 2.0 mg/kg 109 80-120
Magnesium	3.21 J 2.54 10.0 mg/kg 92 82-110
Manganese	0.0780 U 0.0780 0.500 mg/kg 96 81-119
Phosphorus	1.59 J 0.560 10.0 mg/kg 108 80-120
Potassium	18.0 U 18.0 50.0 mg/kg 97 78-110
Sodium	37.3 U 37.3 100 mg/kg 98 87-110
Strontium	0.0620 U 0.0620 0.500 mg/kg 98 79-121
Tin	1.21 J 1.00 10.0 mg/kg 99 90-114
Zirconium	0.840 U 0.840 5.00 mg/kg 107 80-120

Batch number: 103225711004	Sample number(s): 6144589-6144597,6144599-6144600
Mercury	0.0028 U 0.0028 0.0974 mg/kg 97 88-123

Batch number: 103265708002	Sample number(s): 6144589-6144597,6144599-6144600
Titanium	0.362 U 0.362 0.952 mg/kg 87 80-120

Batch number: 10330330201B	Sample number(s): 6144589-6144590,6144592-6144597
7a Perchlorate EPA 314.0	9.0 U 9.0 30.0 ug/kg 115 85-115

Batch number: 10335102201A	Sample number(s): 6144599-6144600
21a Cyanide by 9012B	0.18 U 0.18 0.50 mg/kg 109 80-120

Batch number: 10336336201A	Sample number(s): 6144589-6144590,6144592-6144593
11a Anions by 300.0 - Fluoride	0.80 U 0.80 1.0 mg/kg 108 90-110

Batch number: 10336336201B	Sample number(s): 6144594-6144597,6144599-6144600
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