Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1217761
Reported: 01/20/11 at 12:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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: 103001026001A	Sample number(s): 6120950-6120966									
Antimony	0.0600	U	0.0600	0.200	mg/kg	100		11-208		
Arsenic	0.0600	U	0.0600	0.400	mg/kg	103		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		82-118		
Cadmium	0.0360	U	0.0360	0.100	mg/kg	103		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	111		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.0971	J	0.0660	0.400	mg/kg	103		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	98		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	105		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	101		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	98		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	103		78-122		
Batch number: 103001026001B	Sample number(s): 6120950-6120966									
Selenium	0.0400	U	0.0400	0.400	mg/kg	101		79-122		
Batch number: 103001026001C	Sample number(s): 6120950-6120966									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 103001026001D	Sample number(s): 6120950-6120966									
Barium	0.108	U	0.108	0.400	mg/kg	109		79-121		
Batch number: 103005708002	Sample number(s): 6120950-6120966									
Aluminum	5.03	U	5.03	20.0	mg/kg	103		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	91		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	99		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.101	J	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	1.59	J	0.560	10.0	mg/kg	98		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	92		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	102		79-121		
Tin	1.26	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	101		85-115		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 103005711002	Sample number(s): 6120950-6120966									
Mercury	0.0028	U	0.0028	0.0977	mg/kg	96		88-123		
Batch number: 10305243201A	Sample number(s): 6120950-6120966									
3a Cr VI by EPA 7199	0.26	J	0.20	1.0	mg/kg	94		80-120		
Batch number: 10306306201A	Sample number(s): 6120950-6120959									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
Batch number: 10306306201B	Sample number(s): 6120960-6120966									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
Batch number: 10307307202A	Sample number(s): 6120950-6120959									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10307307202B	Sample number(s): 6120960-6120966								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	100		85-115		
Batch number: 10298039402A	Sample number(s): 6120950-6120952								
22a pH by 9045C					99		95-105		
Batch number: 10298039402B	Sample number(s): 6120953-6120963								
22a pH by 9045C					99		95-105		
Batch number: 10298039403A	Sample number(s): 6120964-6120966								
22a pH by 9045C					100		95-105		
Batch number: 10298182102A	Sample number(s): 6120950-6120952								
Oxidation Reduction Potential					98		98-102		
Batch number: 10298182102B	Sample number(s): 6120953-6120963								
Oxidation Reduction Potential					98		98-102		
Batch number: 10298182103A	Sample number(s): 6120964-6120966								
Oxidation Reduction Potential					98		98-102		
Batch number: 10308162404A	Sample number(s): 6120950-6120957								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10308162404B	Sample number(s): 6120958-6120966								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10302SLA026	Sample number(s): 6120950-6120966 UNSPK: 6120950								
Acenaphthene	81	76	63-105	6	30				
Acenaphthylene	80	78	55-126	3	30				
Anthracene	82	80	46-136	3	30				
Benzo(a)anthracene	87	84	39-144	3	30				
Benzo(a)pyrene	78	82	34-156	4	30				
Benzo(b)fluoranthene	83	89	43-155	5	30				
Benzo(g,h,i)perylene	33	39	33-141	11	30				
Benzo(k)fluoranthene	103	95	42-144	9	30				
Butylbenzylphthalate	0*	0*	73-140	0	30				
Di-n-butylphthalate	0*	0*	78-160	0	30				
Chrysene	68	86	29-156	16	30				
Dibenz(a,h)anthracene	58	55	41-130	6	30				
Diethylphthalate	0*	0*	87-131	0	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	0*	0*	39-167	0	30				
Fluoranthene	69	68	26-166	1	30				
Fluorene	81	76	45-121	6	30				
Indeno(1,2,3-cd)pyrene	53	47	21-143	13	30				

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Reported: 01/20/11 at 12:38 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1-Methylnaphthalene	90	81	72-123	10	30				
2-Methylnaphthalene	78	73	28-121	7	30				
Naphthalene	83	81	61-102	2	30				
N-Nitrosodimethylamine	64	63	48-113	1	30				
Di-n-octylphthalate	0*	0*	40-192	0	30				
Phenanthrene	83	83	12-165	1	30				
Pyrene	73	79	15-153	6	30				
Batch number: 10302SLB026	Sample number(s): 6120950-6120966 UNSPK: 6120951								
Aniline	60	62	14-114	2	30				
Benzidine	28*	25*	35-141	11	30				
Benzo(a)pyrene	89	91	57-126	2	30				
Benzo(b)fluoranthene	82	80	59-125	3	30				
Benzo(g,h,i)perylene	89	93	59-127	5	30				
Benzo(k)fluoranthene	85	90	56-132	6	30				
Benzoic acid	65	65	10-173	1	30				
Benzyl alcohol	85	91	55-123	7	30				
4-Bromophenyl-phenylether	90	92	67-129	2	30				
Butylbenzylphthalate	91	93	73-134	2	30				
Di-n-butylphthalate	84	89	67-123	6	30				
Carbazole	83	88	64-120	6	30				
4-Chloro-3-methylphenol	82	86	53-130	4	30				
4-Chloroaniline	49	56	23-95	14	30				
bis(2-Chloroethoxy)methane	79	81	54-117	2	30				
bis(2-Chloroethyl)ether	76	81	60-116	7	30				
bis(2-Chloroisopropyl)ether	75	81	55-142	7	30				
2-Chloronaphthalene	82	85	50-141	4	30				
2-Chlorophenol	82	88	73-121	7	30				
4-Chlorophenyl-phenylether	82	85	64-119	4	30				
Chrysene	85	86	62-128	1	30				
Dibenzofuran	83	84	71-112	1	30				
1,2-Dichlorobenzene	76	83	66-108	9	30				
1,3-Dichlorobenzene	75	78	63-109	5	30				
1,4-Dichlorobenzene	75	80	53-113	7	30				
3,3'-Dichlorobenzidine	70	72	25-123	3	30				
2,4-Dichlorophenol	85	88	78-117	4	30				
Diethylphthalate	81	83	66-118	2	30				
2,4-Dimethylphenol	83	87	56-130	5	30				
3,5-Dimethylphenol	83	92	70-130	10	30				
Dimethylphthalate	82	84	64-118	3	30				
4,6-Dinitro-2-methylphenol	49	49	10-148	1	30				
2,4-Dinitrophenol	36	37	20-143	4	30				
2,4-Dinitrotoluene	79	81	57-114	2	30				
2,6-Dinitrotoluene	83	84	69-123	0	30				
1,2-Diphenylhydrazine	91	93	71-129	2	30				
bis(2-Ethylhexyl)phthalate	103	93	63-122	10	30				
Fluoranthene	78	84	59-122	7	30				
Hexachlorobenzene	86	93	61-111	7	30				
Hexachlorobutadiene	82	85	62-120	4	30				
Hexachlorocyclopentadiene	32	35	10-153	9	30				
Hexachloroethane	66	71	57-109	8	30				
Indeno(1,2,3-cd)pyrene	89	91	61-126	2	30				
Isophorone	78	80	51-118	3	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Methylphenol	81	83	47-142	3	30				
4-Methylphenol	79	84	55-126	7	30				
2-Nitroaniline	86	84	67-125	1	30				
3-Nitroaniline	81	84	59-122	3	30				
4-Nitroaniline	64	68	52-112	5	30				
Nitrobenzene	79	83	51-114	5	30				
2-Nitrophenol	81	88	74-115	8	30				
4-Nitrophenol	77	81	39-133	5	30				
N-Nitroso-di-n-propylamine	74	79	60-116	6	30				
N-Nitrosodiphenylamine	91	93	86-145	2	30				
Di-n-octylphthalate	89	92	56-126	3	30				
Pentachlorophenol	51	77	17-149	41*	30				
Phenanthrene	84	88	65-125	5	30				
Phenol	82	88	58-126	8	30				
Pyrene	93	93	51-151	0	30				
1,2,4-Trichlorobenzene	80	84	72-115	5	30				
2,4,5-Trichlorophenol	86	89	34-139	4	30				
2,4,6-Trichlorophenol	90	89	49-140	1	30				
Batch number: 103060029A	Sample number(s): 6120950-6120966 UNSPK: 6120950								
2,4-D	118	104	28-161	13	35				
Dalapon	0*	0*	12-86	0	50				
2,4-DB	116	99	20-170	15	50				
Dicamba	152*	128*	33-120	17	50				
Dinoseb	6	0*	1-44	200*	35				
2,4-DP (Dichlorprop)	83	80	55-141	4	50				
MCPA	121	141	31-184	15	50				
MCPP (Mecoprop)	44	21	16-174	19	50				
2,4,5-T	35	49	25-132	34	35				
2,4,5-TP	98	94	10-183	4	35				
Batch number: 103060030A	Sample number(s): 6120956,6120965 UNSPK: P118541								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 103020015A	Sample number(s): 6120950-6120961,6120963-6120966 UNSPK: 6120952								
PCB-1016	69	70	29-146	2	50				
PCB-1260	76	74	39-149	2	50				
Batch number: 103040004A	Sample number(s): 6120950-6120966 UNSPK: 6120950								
Aldrin	71	74	16-126	4	50				
Alpha BHC	94	94	10-129	0	50				
Beta BHC	69	78	14-147	13	50				
Gamma BHC - Lindane	100	100	10-140	0	50				
p,p-DDD	184*	193*	16-163	5	50				
p,p-DDE	173*	192*	18-161	11	50				
p,p-DDT	172 (2)	292 (2)	10-176	19	50				
Delta BHC	78	84	23-140	8	50				
Dieldrin	127	142	19-154	11	50				
Endosulfan I	106	91	16-137	15	50				
Endosulfan II	65	70	28-154	7	50				
Endosulfan Sulfate	100	97	21-160	3	50				
Endrin	109	114	11-149	4	50				
Endrin Aldehyde	97	127	10-148	27	35				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endrin Ketone	87	92	22-165	5	50				
Heptachlor	106	124	13-126	16	50				
Heptachlor Epoxide	68	68	13-157	0	50				
Methoxychlor	98	193*	32-147	65*	50				
Batch number: 103040005A	Sample number(s): 6120962 UNSPK: P124079								
PCB-1016	122	123	29-146	1	50				
PCB-1260	114	107	39-149	7	50				
Batch number: 103001026001A	Sample number(s): 6120950-6120966 UNSPK: 6120955 BKG: 6120955								
Antimony	58*	104	75-125	44*	20	0.238	0.203	16 (1)	20
Arsenic	3216*	119	75-125	170*	20	3.18	3.77	17	20
Beryllium	89	89	75-125	1	20	0.267	0.221	19 (1)	20
Cadmium	109	101	75-125	8	20	0.265	0.281	6 (1)	20
Chromium	78	96	75-125	7	20	13.5	12.2	10	20
Cobalt	91	92	75-125	1	20	4.73	4.63	2	20
Copper	84	202*	75-125	36*	20	17.5	17.3	2	20
Lead	206 (2)	740 (2)	75-125	37*	20	27.7	24.8	11	20
Nickel	101	88	75-125	8	20	8.00	8.79	9	20
Silver	102	103	75-125	2	20	0.0399 J	0.0427 J	7 (1)	20
Thallium	154*	98	75-125	35*	20	0.154	0.152	1 (1)	20
Vanadium	73*	117	75-125	10	20	33.8	32.3	4	20
Zinc	595 (2)	165 (2)	75-125	39*	20	71.9	65.5	9	20
Batch number: 103001026001B	Sample number(s): 6120950-6120966 UNSPK: 6120955 BKG: 6120955								
Selenium	97	91	75-125	7	20	0.0860 J	0.0675 J	24* (1)	20
Batch number: 103001026001C	Sample number(s): 6120950-6120966 UNSPK: 6120955 BKG: 6120955								
Molybdenum	101	106	75-125	2	20	0.658	0.673	2	20
Batch number: 103001026001D	Sample number(s): 6120950-6120966 UNSPK: 6120955 BKG: 6120955								
Barium	155 (2)	240 (2)	75-125	6	20	103	99.3	4	20
Batch number: 103005708002	Sample number(s): 6120950-6120966 UNSPK: 6120950 BKG: 6120950								
Aluminum	1666 (2)	438 (2)	75-125	12	20	18,600	18,900	2	20
Boron	98	97	84-115	3	20	4.89 J	4.70 J	4 (1)	20
Calcium	-59 (2)	32 (2)	75-125	8	20	4,740	4,520	5	20
Iron	2660 (2)	237 (2)	75-125	11	20	19,700	20,100	2	20
Lithium	98	96	82-114	4	20	16.7	16.7	0	20
Magnesium	170 (2)	334 (2)	75-125	7	20	3,920	4,160	6	20
Manganese	292 (2)	63 (2)	75-125	28*	20	320	401	23*	20
Phosphorus	121	183*	75-125	13	20	296	324	9	20
Potassium	144*	132*	75-125	3	20	3,310	3,300	1	20
Sodium	100	98	75-125	5	20	103	105	2 (1)	20
Strontium	110	99	75-115	11	20	29.7	30.1	1	20
Tin	93	92	80-110	4	20	2.36 J	2.22 J	6 (1)	20
Titanium	389 (2)	243 (2)	75-125	9	20	1,350	1,340	1	20
Zirconium	97	94	75-125	6	20	5.26	5.91	12 (1)	20
Batch number: 103005711002	Sample number(s): 6120950-6120966 UNSPK: 6120950 BKG: 6120950								
Mercury	87	90	65-135	2	20	0.0995	0.0979	2 (1)	20

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Batch number: 10305243201A	Sample number(s): 6120950-6120966					UNSPK: 6120956	BKG: 6120956		
3a Cr VI by EPA 7199	85		75-125			0.70 J	0.83 J	17 (1)	20
Batch number: 10306306201A	Sample number(s): 6120950-6120959					UNSPK: 6120950	BKG: 6120950		
11a Anions by 300.0 - Fluoride	83		80-120			2.3	1.9	22* (1)	20
Batch number: 10306306201B	Sample number(s): 6120960-6120966					UNSPK: 6120960	BKG: 6120960		
11a Anions by 300.0 - Fluoride	33*		80-120			6.6	8.2	21*	20
Batch number: 10307307202A	Sample number(s): 6120950-6120959					UNSPK: 6120950	BKG: 6120950		
7a Perchlorate EPA 314.0	107		80-120			25.1 J	9.0 U	200* (1)	15
Batch number: 10307307202B	Sample number(s): 6120960-6120966					UNSPK: 6120960	BKG: 6120960		
7a Perchlorate EPA 314.0	94		80-120			9.2 J	14.5 J	45* (1)	15
Batch number: 10298039402A	Sample number(s): 6120950-6120952					BKG: P119986			
22a pH by 9045C						7.80	7.81	0	1
Batch number: 10298039402B	Sample number(s): 6120953-6120963					BKG: 6120963			
22a pH by 9045C						7.45	7.46	0	1
Batch number: 10298039403A	Sample number(s): 6120964-6120966					BKG: 6120966			
22a pH by 9045C						7.51	7.33	2*	1
Batch number: 10298182102A	Sample number(s): 6120950-6120952					BKG: P119986			
Oxidation Reduction Potential						191	191	0	6
Batch number: 10298182102B	Sample number(s): 6120953-6120963					BKG: 6120963			
Oxidation Reduction Potential						321	323	1	6
Batch number: 10298182103A	Sample number(s): 6120964-6120966					BKG: 6120966			
Oxidation Reduction Potential						360	354	2	6
Batch number: 10308162404A	Sample number(s): 6120950-6120957					BKG: 6120956			
28a Moisture Content by 160.3						9.6	9.9	3	20
Batch number: 10308162404B	Sample number(s): 6120958-6120966					BKG: 6120958			
28a Moisture Content by 160.3						13.4	14.7	10	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: 4a Select SVOC EPA 8270SIM
Batch number: 10302SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6120950	94	79	78

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Surrogate Quality Control

6120951	82	76	81
6120952	99	74	84
6120953	104	85	82
6120954	82	76	88
6120955	83	72	81
6120956	91	78	87
6120957	90	79	83
6120958	91	78	68
6120959	91	72	77
6120960	90	79	88
6120961	83	76	93
6120962	97	60	59
6120963	97	81	85
6120964	98	81	82
6120965	97	82	77
6120966	98	81	80
Blank	81	73	88
LCS	90	80	92
MS	85	76	77
MSD	89	73	76
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10302SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6120950	88	91	82	88	94	87
6120951	95	97	89	87	93	92
6120952	87	87	87	79	87	84
6120953	90	92	92	83	92	85
6120954	86	87	93	82	94	81
6120955	88	92	82	80	90	81
6120956	91	93	89	83	94	83
6120957	86	89	86	85	92	82
6120958	84	87	84	81	91	80
6120959	85	86	82	80	89	75
6120960	82	85	84	78	89	79
6120961	7*	8*	7*	7*	8*	7*
6120962	6*	7*	8*	6*	7*	8*
6120963	88	92	85	83	93	83
6120964	85	88	85	82	87	80
6120965	84	85	87	77	86	80
6120966	88	91	90	83	93	84
Blank	82	87	85	82	89	83
LCS	88	89	93	84	90	85
MS	78	80	76	75	81	80
MSD	85	86	83	81	85	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103020015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6120950	52*	46
6120951	85	92
6120952	70	59

*- 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. Group Number: 1217761
Reported: 01/20/11 at 12:38 PM

Surrogate Quality Control

6120953	87	77
6120954	91	85
6120955	32*	35*
6120956	84	80
6120957	74	83
6120958	85	91
6120959	70	62
6120960	85	78
6120961	94	108
6120963	81	77
6120964	81	61
6120965	82	86
6120966	64	64
Blank	88	97
LCS	85	92
LCSD	89	102
MS	77	70
MSD	80	68
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103040004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6120950	83	159*
6120951	57	51
6120952	83	104
6120953	73	70
6120954	62	65
6120955	97	172*
6120956	65	80
6120957	58	102
6120958	93	114
6120959	91	201*
6120960	90	69
6120961	99	157*
6120962	88	344*
6120963	92	93
6120964	81	94
6120965	92	99
6120966	91	106
Blank	54	137*
LCS	62	135*
MS	72	149*
MSD	83	133*
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103040005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6120962	64	101
Blank	91	90
LCS	88	92
LCSD	89	89
MS	97	87

*- 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. Group Number: 1217761
Reported: 01/20/11 at 12:38 PM

Surrogate Quality Control

MSD	86	86
Limits:	53-139	53-142

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103060029A

	2,4-Dichlorophenylacetic acid
6120950	147
6120951	97
6120952	134
6120953	107
6120954	105
6120955	96
6120956	87
6120957	88
6120958	66
6120959	176*
6120960	91
6120961	107
6120962	81
6120963	73
6120964	67
6120965	107
6120966	90
Blank	66
LCS	78
MS	113
MSD	130
Limits:	36-156

*- 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 Cap# 1217761 Sample# 6120950-066

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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
Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: (Signature) Johanna K. Martin

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
SL-065-SA5C-SS-0.0-0.5	10.22.10	1010	soil	none	1 brass sleeve			√	√																		Amended COC pg. 1 of 2
SL-066-SA5C-SS-0.0-0.5	10.22.10	0920	soil	none	1 brass sleeve			√	√																		Perchlorate by 6850 was added to SL-050 and SL-061 per PB on 10/25/10. NM 11/1/10
SL-076-SA5C-SS-0.0-0.5	10.22.10	1000	soil	none	1 brass sleeve			√	√																		
SL-077-SA5C-SS-0.0-0.5	10.22.10	0945	soil	none	1 brass sleeve			√	√																		
SL-078-SA5C-SS-0.0-0.5	10.22.10	0935	soil	none	1 brass sleeve			√	√																		
SL-049-SA5C-SS-0.0-0.5	10.22.10	0835	soil	none	1 brass sleeve			√	√																		
SL-050-SA5C-SS-0.0-0.5	10.22.10	0910	soil	none	1 brass sleeve			√	√																		
SL-053-SA5C-SS-0.0-0.5	10.22.10	0855	soil	none	1 brass sleeve			√	√																		
SL-065-SA5C-SS-0.0-0.5	10.22.10	1010	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-066-SA5C-SS-0.0-0.5	10.22.10	0920	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-076-SA5C-SS-0.0-0.5	10.22.10	1000	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-077-SA5C-SS-0.0-0.5	10.22.10	0945	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-078-SA5C-SS-0.0-0.5	10.22.10	0935	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-049-SA5C-SS-0.0-0.5	10.22.10	0835	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-050-SA5C-SS-0.0-0.5	10.22.10	0910	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-053-SA5C-SS-0.0-0.5	10.22.10	0855	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									

Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
Johanna K. Martin	10-22-10 1700						Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Airbill No.**	
					10/23/10 0910	8728 5289 3385	

acct# 13013 Cap# 1217761 Sample# 6120950-66

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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
Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: (Signature) Rhonna K. Martin

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	TPH g/mo/d EPA 8015B	*Metals EPA 6010/6020/8647471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Pesticides EPA 8081A	*Herbicides EPA 8151	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
SL-086-SA5C-SS-0.0-0.5	10.22.10	1505	soil	PB 10.22.10	1 brass sleeves			√	√		√	√	√	√	√	√	√	√	PB 10.22.10								Amended COC Pg. 2 of 2
SL-090-SA5C-SS-0.0-0.5	10.22.10	1445	soil		1 brass sleeves			√	√		√	√	√	√	√	√	√	√	PB 10.22.10								
SL-095-SA5C-SS-0.0-0.5	10.22.10	1415	soil		1 brass sleeves			√	√		√	√	√	√	√	√	√	√	PB 10.22.10								
SL-096-SA5C-SS-0.0-0.5	10.22.10	1425	soil		1 brass sleeves			√	√		√	√	√	√	√	√	√	√									
SL-086-SA5C-SS-0.0-0.5	10.22.10	1505	soil		1-16 oz jar PB 10.22.10			√	√		√	√	√	√	√	√	√	√									
SL-090-SA5C-SS-0.0-0.5	10.22.10	1445	soil		1-16 oz jar PB 10.22.10			√	√		√	√	√	√	√	√	√	√									
SL-095-SA5C-SS-0.0-0.5	10.22.10	1415	soil		1-16 oz jar PB 10.22.10			√	√		√	√	√	√	√	√	√	√									
SL-096-SA5C-SS-0.0-0.5	10.22.10	1425	soil		1-16 oz jar PB 10.22.10			√	√		√	√	√	√	√	√	√	√									
SL-056-SA5C-SS-0.0-0.5		1115	soil		1 brass sleeve			X	X																		
↓		1115	soil		1-16 oz jar						X	X	X	X	X	X	X	X									
SL-057-SA5C-SS-0.0-0.5		1130			1 brass sleeve			X	X																		
↓		1130			1-16 oz jar						X	X	X	X	X	X	X	X									
SL-060-SA5C-SS-0.0-0.5		1030			1 brass sleeve			X	X																		
↓		1030			1-16 oz jar						X	X	X	X	X	X	X	X									
SL-061-SA5C-SS-0.0-0.5		1040			1-16 oz jar PB 10.22.10			X	X		X	X	X	X	X	X	X	X									
↓		1040			1-brass sleeve			X	X																		

Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
Rhonna K. Martin	10-22-10 1700						Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Airbill No.**	
					10/23/10 0900	8728 5289 3385	

Page 2 of 2

SL-062-SA5C-SS-00-0.5 10.22.10 1050 1050 — 1-brass sleeve, 1-16oz jar — X X — X X X √ X X X X

acct# 13013 Cap# 1217761 Sample# 6120950-066

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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
Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: (Signature) Johanna K. Martin

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
SL-065-SA5C-SS-0.0-0.5	10.22.10	1010	soil	none	1 brass sleeve			√	√																		
SL-066-SA5C-SS-0.0-0.5	10.22.10	0920	soil	none	1 brass sleeve			√	√																		
SL-076-SA5C-SS-0.0-0.5	10.22.10	1000	soil	none	1 brass sleeve			√	√																		
SL-077-SA5C-SS-0.0-0.5	10.22.10	0945	soil	none	1 brass sleeve			√	√																		
SL-078-SA5C-SS-0.0-0.5	10.22.10	0935	soil	none	1 brass sleeve			√	√																		
SL-049-SA5C-SS-0.0-0.5	10.22.10	0835	soil	none	1 brass sleeve			√	√																		
SL-050-SA5C-SS-0.0-0.5	10.22.10	0910	soil	none	1 brass sleeve			√	√																		
SL-053-SA5C-SS-0.0-0.5	10.22.10	0855	soil	none	1 brass sleeve			√	√																		
SL-065-SA5C-SS-0.0-0.5	10.22.10	1010	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-066-SA5C-SS-0.0-0.5	10.22.10	0920	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-076-SA5C-SS-0.0-0.5	10.22.10	1000	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-077-SA5C-SS-0.0-0.5	10.22.10	0945	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-078-SA5C-SS-0.0-0.5	10.22.10	0935	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-049-SA5C-SS-0.0-0.5	10.22.10	0835	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-050-SA5C-SS-0.0-0.5	10.22.10	0910	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									
SL-053-SA5C-SS-0.0-0.5	10.22.10	0855	soil	none	1-16 oz jar						√	√	√	√	√	√	√	√									

Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
Johanna K. Martin	10-22-10 1700						Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Airbill No.**	
					10/23/10 0910	8728 5289 3385	

acct# 13013 Cap# 1217761 Sample# 6120950-66

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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
Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: (Signature) Rhonna K. Martin

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
SL-086-SA5C-SS-0.0-0.5	10.22.10	1505	soil	PB 10.22.10	1 brass sleeves			√	√		~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	PB 10.22.10								
SL-090-SA5C-SS-0.0-0.5	10.22.10	1445	soil		1 brass sleeves			√	√		~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	PB 10.22.10								
SL-095-SA5C-SS-0.0-0.5	10.22.10	1415	soil		1 brass sleeves			√	√		~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	PB 10.22.10								
SL-096-SA5C-SS-0.0-0.5	10.22.10	1425	soil		1 brass sleeves			√	√		~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~									
SL-086-SA5C-SS-0.0-0.5	10.22.10	1505	soil		1-16 oz jar PB 10.22.10			~~√~~	~~√~~		√	√	√	√	√	√	√	√								
SL-090-SA5C-SS-0.0-0.5	10.22.10	1445	soil		1-16 oz jar PB 10.22.10			~~√~~	~~√~~		√	√	√	√	√	√	√	√								
SL-095-SA5C-SS-0.0-0.5	10.22.10	1415	soil		1-16 oz jar PB 10.22.10			~~√~~	~~√~~		√	√	√	√	√	√	√	√								
SL-096-SA5C-SS-0.0-0.5	10.22.10	1425	soil		1-16 oz jar PB 10.22.10			~~√~~	~~√~~		√	√	√	√	√	√	√	√								
SL-056-SA5C-SS-0.0-0.5		1115	soil		1 brass sleeve			X	X																	
↓		1115	soil		1-16 oz jar						X	X	X	X	X	X	X	X								
SL-057-SA5C-SS-0.0-0.5		1130			1 brass sleeve			X	X																	
↓		1130			1-16 oz jar						X	X	X	X	X	X	X	X								
SL-060-SA5C-SS-0.0-0.5		1030			1 brass sleeve			X	X																	
↓		1030			1-16 oz jar						X	X	X	X	X	X	X	X								
SL-061-SA5C-SS-0.0-0.5		1040			1-16 oz jar PB 10.22.10			~~X~~	~~X~~		X	X	X	X	X	X	X	X								
↓		1040			1-brass sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
Rhonna K. Martin	10-22-10 1700						Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Airbill No.**	
					10/23/10 0940	8728 5289 3385	

SL-062-SA5C-SS-00-0.5 10.22.10 1050 ↓ ↓ 1050

1-brass sleeve
1-16oz jar

X X

X X X X X X X X

January 28, 2011

Mr. Todd Burgesser
CDM Federal Services Program
555 17th Street Suite 1100
Denver, CO 80202

Dear Mr. Burgesser:

I am writing to inform you of revised analytical reports that are being issued for the SSFL Area IV Collocated Soil Sampling project.

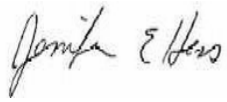
The correction to the data affects the Quality Control summary for the Perchlorate by LCMSMS analysis only.

During an additional review of this data, it was determined that the 70% to 130%% acceptance window reported for the perchlorate Laboratory Control Spike analysis was incorrect. The acceptance window has been corrected to the project specific window of 85% to 115%. This correction does not change any of the reported sample or quality control results. Additionally the matrix spike acceptance windows were updated to reflect the project windows of 80% to 120% recovery with a %RPD of 20%.

The revised analytical reports reflect these corrections and are attached.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1265. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,



Jenifer E. Hess
Manager
Environmental Sciences Division

JEH/mcs
Enclosures

cc: Nicole Maljovec

Lancaster Laboratories, Inc.
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Clogherane, Dungarvan
Co. Waterford, Ireland
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www.lancasterlabs.ie

SDG	Group #	Sample #	Sample Description	Collection Date
DE001	1217631	6119976	SL-100-SA5C-SS-0.0-0.5 Grab Soil	10/21/2010 08:35:00
DE001	1217631	6119967	SL-144-SA5C-SS-0.0-0.5 Grab Soil	10/20/2010 13:30:00
DE002	1217632	6119983	SL-079-SA5C-SS-0.0-0.5 Grab Soil	10/21/2010 11:15:00
DE003	1217761	6120956	SL-050-SA5C-SS-0.0-0.5 Soil	10/22/2010 09:10:00
DE003	1217761	6120965	SL-061-SA5C-SS-0.0-0.5 Soil	10/22/2010 10:40:00
DE004	1218260	6124085	SL-008-SA5C-SS-0.0-0.5 Grab Soil	10/26/2010 10:10:00
DE008	1219732	6132121	SL-118-SA5C-SB-4.0-5.0 Grab Soil	11/03/2010 11:50:00
DE008	1219732	6132126	SL-120-SA5C-SB-9.0-10.0 Grab Soil	11/03/2010 14:15:00
DE009	1219878	6132736	SL-134-SA5C-SB-4.0-5.0 Soil	11/04/2010 15:35:00
DE010	1220069	6133890	SL-129-SA5C-SB-4.0-5.0 Grab Soil	11/05/2010 10:50:00
DE012	1220507	6136196	SL-102-SA5C-SB-4.0-5.0 Soil	11/09/2010 10:55:00
DE013	1220753	6137485	SL-111-SA5C-SB-4.0-5.0 Soil	11/10/2010 14:45:00
DE015	1221175	6140325	SL-096-SA5C-SB-4.0-5.0 Soil	11/12/2010 10:50:00
DE017	1221705	6143354	SL-085-SA5C-SB-2.5-3.0 Soil	11/16/2010 15:03:00
DE018	1221905	6144595	SL-079-SA5C-SB-8.5-9.5 Soil	11/17/2010 12:10:00
DE020	1222291	6147113	SL-051-SA5C-SB-3.0-4.0 Soil	11/19/2010 11:45:00
DE021	1222508	6148501	SL-078-SA5C-SB-4.0-5.0 Soil	11/22/2010 15:14:00
DE022	1222698	6149365	SL-077-SA5C-SB-3.0-4.0 Soil	11/23/2010 11:30:00
DE024	1223083	6151502	SL-058-SA5C-SB-3.0-4.0 Soil	11/29/2010 09:45:00
DE027	1223723	6154847	SL-039-SA5C-SB-4.0-5.0 Soil	12/02/2010 14:49:00
DE027	1223723	6154852	SL-040-SA5C-SB-9.0-10.0 Soil	12/02/2010 12:26:00
DE028	1223933	6156144	SL-031-SA5C-SB-9.0-10.0 Soil	12/03/2010 12:44:00
DE029	1224161	6157201	SL-025-SA5C-SB-4.0-5.0 Soil	12/06/2010 15:13:00
DOE01	1217424	6118541	SL-129-SA5C-SS-0.0-0.5 Soil	10/18/2010 10:45:00

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ 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

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

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	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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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

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: 10/27/2010
Group Number: 1218260
SDG: DE004
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-047-SA5C-SS-0.0-0.5 Grab Soil	6124071
SL-045-SA5C-SS-0.0-0.5 Grab Soil	6124072
SL-027-SA5C-SS-0.0-0.5 Grab Soil	6124073
SL-032-SA5C-SS-0.0-0.5 Grab Soil	6124074
SL-026-SA5C-SS-0.0-0.5 Grab Soil	6124075
SL-038-SA5C-SS-0.0-0.5 Grab Soil	6124076
EB01-SA5C-102510 Grab Water	6124077
FB01-SA5C-102510 Grab Water	6124078
SL-041-SA5C-SS-0.0-0.5 Grab Soil	6124079
SL-041-SA5C-SS-0.0-0.5 MS Grab Soil	6124080
SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil	6124081
SL-041-SA5C-SS-0.0-0.5 DUP Grab Soil	6124082
SL-043-SA5C-SS-0.0-0.5 Grab Soil	6124083
DUP03-SA5C-QC-102510 Grab Soil	6124084
SL-008-SA5C-SS-0.0-0.5 Grab Soil	6124085
SL-020-SA5C-SS-0.0-0.5 Grab Soil	6124086
SL-018-SA5C-SS-0.0-0.5 Grab Soil	6124087
SL-012-SA5C-SS-0.0-0.5 Grab Soil	6124088
SL-024-SA5C-SS-0.0-0.5 Grab Soil	6124089
SL-004-SA5C-SS-0.0-0.5 Grab Soil	6124090
SL-001-SA5C-SS-0.0-0.5 Grab Soil	6124091
SL-002-SA5C-SS-0.0-0.5 Grab Soil	6124092
SL-033-SA5C-SS-0.0-0.5 Grab Soil	6124093
EB02-SA5C-102610 Grab Water	6124094
FB02-SA5C-102610 Grab Water	6124095

Lancaster Laboratories

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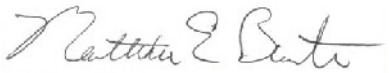
Analysis Report

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

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

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

Respectfully Submitted,



Matthew E. Barton
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-047-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124071
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL047 SDG#: DE004-01

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	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	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
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

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

Sample Description: SL-047-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124071
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL047 SDG#: DE004-01

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	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	1.3	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	J	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	1.4	J	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	6.8	J	6.4	19	1
10138	Fluoranthene	206-44-0	1.2	J	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	1.2	J	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	550		80	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	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.

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

Sample Description: SL-047-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124071
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL047 SDG#: DE004-01

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	Chlordane	57-74-9	1.7	U	1.7	3.6	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36	1
01363	p,p-DDE	72-55-9	0.10	U	0.10	0.36	1
01363	p,p-DDT	50-29-3	0.17	U	0.17	0.36	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.36	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.36	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

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.

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	0.69	J	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	11,100		5.39	21.4	1
07914	Boron	7440-42-8	5.66		0.954	5.36	1
01650	Calcium	7440-70-2	2,180		6.57	21.4	1
01654	Iron	7439-89-6	17,100		5.05	21.4	1
01656	Lithium	7439-93-2	23.0		0.24	2.1	1
01657	Magnesium	7439-95-4	3,460		2.72	10.7	1
06958	Manganese	7439-96-5	261		0.0836	0.536	1
10145	Phosphorus	7723-14-0	314		0.600	10.7	1
01662	Potassium	7440-09-7	2,960		19.3	53.6	1
01667	Sodium	7440-23-5	66.7	J	40.0	107	1
07968	Strontium	7440-24-6	12.0		0.0665	0.536	1
06969	Tin	7440-31-5	3.01	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,100		2.04	5.36	5

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

Sample Description: SL-047-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124071
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL047 SDG#: DE004-01

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**	
10146	Zirconium		7440-67-7	2.98 J	0.900	5.36	1
		SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	3.57	0.0637	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	2.96	0.0637	0.424	2
06126	Barium		7440-39-3	68.3	0.115	0.424	2
06127	Beryllium		7440-41-7	0.372	0.0170	0.106	2
06128	Cadmium		7440-43-9	0.0611 J	0.0382	0.106	2
06131	Chromium		7440-47-3	10.4	0.127	0.424	2
06132	Cobalt		7440-48-4	3.76	0.0212	0.106	2
06133	Copper		7440-50-8	4.44	0.0700	0.424	2
06135	Lead		7439-92-1	3.88	0.0110	0.212	2
06138	Molybdenum		7439-98-7	0.203	0.0531	0.106	2
06139	Nickel		7440-02-0	6.13	0.106	0.424	2
06141	Selenium		7782-49-2	0.0622 J	0.0424	0.424	2
06142	Silver		7440-22-4	0.0127 U	0.0127	0.106	2
06145	Thallium		7440-28-0	0.245	0.0318	0.106	2
06148	Vanadium		7440-62-2	22.6	0.0233	0.106	2
06149	Zinc		7440-66-6	52.6	0.594	3.18	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	1.4	0.86	1.1	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil		14797-73-0	9.6 U	9.6	32.2	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC		18540-29-9	0.36 J	0.21	1.1	1
		ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	434	10.0	10.0	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH		n.a.	7.51	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.						

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

Sample Description: SL-047-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124071
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL047 SDG#: DE004-01

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	10305SLC026	11/14/2010 02:46	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/22/2010 17:25	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 01:16	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/17/2010 23:33	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 05:34	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 09:35	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 16:27	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 09:35	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 09:35	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 09:35	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 16:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 16:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 09:35	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 09:35	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 09:35	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 16:27	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 09:35	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 16:30	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 09:35	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 04:46	David K Beck	2
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 04:46	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 04:46	David K Beck	2

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

Sample Description: SL-047-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124071
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL047 SDG#: DE004-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 04:46	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 17:45	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 17:39	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 09:37	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401A	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-045-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124072
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL045 SDG#: DE004-02

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	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

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

Sample Description: SL-045-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124072
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL045 SDG#: DE004-02

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	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	0.96	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	3.7		0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.0		0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	5.1		0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	4.0		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	6.7		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	8.6	J	6.5	19	1
10138	Fluoranthene	206-44-0	4.7		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	1.2	J	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	J	0.72	1.8	1
10138	Pyrene	129-00-0	6.0		0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.65	U	0.65	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	82	U	82	270	1
10401	MCPP (Mecoprop)	93-65-2	260	J	81	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	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.
Due to interfering peaks on the chromatogram, the values reported for dicamba represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1

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

Sample Description: SL-045-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124072
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL045 SDG#: DE004-02

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	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	1.9	U	1.9	3.7	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37	1
01363	p,p-DDE	72-55-9	4.0	U	4.0	4.0	5
01363	p,p-DDT	50-29-3	2.4	U	2.4	2.4	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.42	U	0.42	0.42	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.25	U	0.25	0.37	1
01363	Endrin	72-20-8	0.23	U	0.23	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.32	U	0.32	0.37	1
01363	Endrin Ketone	53494-70-5	0.18	U	0.18	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.061	U	0.061	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.46	U	0.46	0.46	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

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	1.1	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	2.3		0.36	1.8	1
10225	PCB-1260	11096-82-5	1.3	J	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	15,500		5.36	21.3	1
07914	Boron	7440-42-8	7.59		0.949	5.33	1
01650	Calcium	7440-70-2	2,830		6.53	21.3	1
01654	Iron	7439-89-6	20,600		5.02	21.3	1
01656	Lithium	7439-93-2	21.7		0.23	2.1	1
01657	Magnesium	7439-95-4	4,420		2.71	10.7	1
06958	Manganese	7439-96-5	344		0.0831	0.533	1
10145	Phosphorus	7723-14-0	340		0.597	10.7	1
01662	Potassium	7440-09-7	3,020		19.2	53.3	1

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

Sample Description: SL-045-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124072
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL045 SDG#: DE004-02

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**	
01667	Sodium	7440-23-5	114		39.8	107	1
07968	Strontium	7440-24-6	19.4		0.0661	0.533	1
06969	Tin	7440-31-5	3.14	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,280		2.02	5.33	5
10146	Zirconium	7440-67-7	2.99	J	0.895	5.33	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.178	J	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	5.85		0.0633	0.422	2
06126	Barium	7440-39-3	112		0.114	0.422	2
06127	Beryllium	7440-41-7	0.657		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.186		0.0380	0.106	2
06131	Chromium	7440-47-3	21.7		0.127	0.422	2
06132	Cobalt	7440-48-4	7.51		0.0211	0.106	2
06133	Copper	7440-50-8	11.5		0.0697	0.422	2
06135	Lead	7439-92-1	8.61		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.577		0.0528	0.106	2
06139	Nickel	7440-02-0	12.6		0.106	0.422	2
06141	Selenium	7782-49-2	0.207	J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0272	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.293		0.0317	0.106	2
06148	Vanadium	7440-62-2	40.7		0.0232	0.106	2
06149	Zinc	7440-66-6	50.3		0.591	3.17	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	2.0		0.86	1.1	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		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.39	J	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.	7.96		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	7.1		0.50	0.50	1

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

Sample Description: SL-045-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124072
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL045 SDG#: DE004-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/14/2010 03:12	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/21/2010 18:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 01:43	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/17/2010 23:48	Jamie L Brillhart	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/30/2010 23:56	Jamie L Brillhart	5
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 05:52	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 09:45	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 16:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 09:45	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 09:45	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 09:45	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 16:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 16:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 09:45	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 09:45	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 09:45	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 16:34	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 09:45	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 16:37	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 09:45	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-045-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124072
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL045 SDG#: DE004-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 04:49	David K Beck	2
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 04:49	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 04:49	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 04:49	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 18:01	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 18:03	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 09:51	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401A	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Sample Description: SL-027-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124073
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 15:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL027 SDG#: DE004-03

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	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	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	Diethylphthalate	84-66-2	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	Dimethylphthalate	131-11-3	18	U	18	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	bis(2-Ethylhexyl)phthalate	117-81-7	19	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

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

Sample Description: SL-027-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124073
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 15:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL027 SDG#: DE004-03

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**	
	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	18	U	18	180	1
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	7.3	U	7.3	18	10
10138	Acenaphthylene	208-96-8	3.7	U	3.7	18	10
10138	Anthracene	120-12-7	3.7	U	3.7	18	10
10138	Benzo(a)anthracene	56-55-3	7.3	U	7.3	18	10
10138	Benzo(a)pyrene	50-32-8	7.3	U	7.3	18	10
10138	Benzo(b)fluoranthene	205-99-2	10	J	7.3	18	10
10138	Benzo(g,h,i)perylene	191-24-2	7.3	U	7.3	18	10
10138	Benzo(k)fluoranthene	207-08-9	7.3	U	7.3	18	10
10138	Chrysene	218-01-9	9.7	J	3.7	18	10
10138	Dibenz(a,h)anthracene	53-70-3	7.3	U	7.3	18	10
10138	Fluoranthene	206-44-0	7.3	U	7.3	18	10
10138	Fluorene	86-73-7	7.3	U	7.3	18	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.3	U	7.3	18	10
10138	1-Methylnaphthalene	90-12-0	7.3	U	7.3	18	10
10138	2-Methylnaphthalene	91-57-6	7.3	U	7.3	18	10
10138	Naphthalene	91-20-3	7.3	U	7.3	18	10
10138	N-Nitrosodimethylamine	62-75-9	7.3	U	7.3	18	10
10138	Phenanthrene	85-01-8	7.3	U	7.3	18	10
10138	Pyrene	129-00-0	7.3	U	7.3	18	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9	1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	U	1.1	1.9	1
10401	MCPA	94-74-6	84	U	84	270	1
10401	MCPP (Mecoprop)	93-65-2	310		82	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	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. Due to interfering peaks on the chromatogram, the values reported 2,4-DP represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

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

Sample Description: SL-027-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124073
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 15:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL027 SDG#: DE004-03

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	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.11	J	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	1.9	U	1.9	3.7	1
01363	p,p-DDD	72-54-8	0.11	U	0.11	0.37	1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.37	1
01363	p,p-DDT	50-29-3	0.76	U	0.76	0.76	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.37	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

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.

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	1.9	J	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	0.62	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	1.2	J	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	18,600		5.53	22.0	1
07914	Boron	7440-42-8	7.16		0.978	5.49	1
01650	Calcium	7440-70-2	3,320		6.74	22.0	1
01654	Iron	7439-89-6	21,300		5.18	22.0	1
01656	Lithium	7439-93-2	21.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,650		2.79	11.0	1
06958	Manganese	7439-96-5	297		0.0857	0.549	1
10145	Phosphorus	7723-14-0	358		0.615	11.0	1
01662	Potassium	7440-09-7	2,810		19.8	54.9	1

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

Sample Description: SL-027-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124073
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 15:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL027 SDG#: DE004-03

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**	
01667	Sodium	7440-23-5	140		41.0	110	1
07968	Strontium	7440-24-6	20.5		0.0681	0.549	1
06969	Tin	7440-31-5	3.10	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,290		2.09	5.49	5
10146	Zirconium	7440-67-7	2.95	J	0.923	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.155	J	0.0653	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	4.24		0.0653	0.435	2
06126	Barium	7440-39-3	90.9		0.118	0.435	2
06127	Beryllium	7440-41-7	0.500		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.123		0.0392	0.109	2
06131	Chromium	7440-47-3	16.5		0.131	0.435	2
06132	Cobalt	7440-48-4	5.20		0.0218	0.109	2
06133	Copper	7440-50-8	9.44		0.0718	0.435	2
06135	Lead	7439-92-1	6.74		0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.396		0.0544	0.109	2
06139	Nickel	7440-02-0	9.25		0.109	0.435	2
06141	Selenium	7782-49-2	0.0985	J	0.0435	0.435	2
06142	Silver	7440-22-4	0.0333	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.237		0.0326	0.109	2
06148	Vanadium	7440-62-2	35.7		0.0239	0.109	2
06149	Zinc	7440-66-6	56.4		0.609	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	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	4.0		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	0.82	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	469		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	8.35		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	9.0		0.50	0.50	1

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

Sample Description: SL-027-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124073
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 15:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL027 SDG#: DE004-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/14/2010 03:37	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/21/2010 19:32	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 02:10	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 00:03	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 06:11	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 09:49	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 16:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 09:49	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 09:49	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 09:49	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 16:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 16:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 09:49	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 09:49	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 09:49	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 16:41	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 09:49	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 16:44	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 09:49	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 04:58	David K Beck	2

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

Sample Description: SL-027-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124073
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 15:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL027 SDG#: DE004-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 04:58	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 04:58	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 04:58	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 18:16	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 18:27	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10313243201A	11/11/2010 10:12	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401A	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-032-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124074
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 13:48 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL032 SDG#: DE004-04

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	24	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
04688	Phenol	108-95-2	19	U	19	190	1

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

Sample Description: SL-032-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124074
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 13:48 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL032 SDG#: DE004-04

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	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	0.78	J	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.88	J	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	1.9	J	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	2.7		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	1.6	J	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	0.83	J	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	2.4		0.74	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	10		0.69	1.9	1
10401	Dicamba	1918-00-9	0.82	J	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	140	J	85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.19	U	0.19	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	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.
Due to interfering peaks on the chromatogram, the values reported for 2,4,5-T represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.084	U	0.084	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1

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

Sample Description: SL-032-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124074
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 13:48 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL032 SDG#: DE004-04

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	Beta BHC	319-85-7	0.080	J	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	4.9	U	4.9	4.9	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.97	U	0.97	0.97	1
01363	p,p-DDT	50-29-3	2.9	U	2.9	2.9	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.38	U	0.38	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.60	U	0.60	0.60	1
01363	Endrin Aldehyde	7421-93-4	0.26	U	0.26	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.085	U	0.085	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.48	U	0.48	0.48	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

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.

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	5.5		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	7.4		0.37	1.9	1
10225	PCB-1260	11096-82-5	4.4		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	19,100		5.50	21.9	1
07914	Boron	7440-42-8	11.2		0.974	5.47	1
01650	Calcium	7440-70-2	8,050		6.71	21.9	1
01654	Iron	7439-89-6	23,900		5.15	21.9	1
01656	Lithium	7439-93-2	22.5		0.24	2.2	1
01657	Magnesium	7439-95-4	4,850		2.78	10.9	1
06958	Manganese	7439-96-5	306		0.0853	0.547	1
10145	Phosphorus	7723-14-0	311		0.613	10.9	1
01662	Potassium	7440-09-7	2,930		19.7	54.7	1
01667	Sodium	7440-23-5	151		40.8	109	1
07968	Strontium	7440-24-6	30.8		0.0678	0.547	1

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

Sample Description: SL-032-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124074
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 13:48 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL032 SDG#: DE004-04

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**	
06969	Tin	7440-31-5	3.15	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,230		2.08	5.47	5
10146	Zirconium	7440-67-7	4.37	J	0.919	5.47	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.187	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	5.44		0.0657	0.438	2
06126	Barium	7440-39-3	99.6		0.118	0.438	2
06127	Beryllium	7440-41-7	0.627		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.166		0.0394	0.109	2
06131	Chromium	7440-47-3	19.7		0.131	0.438	2
06132	Cobalt	7440-48-4	5.80		0.0219	0.109	2
06133	Copper	7440-50-8	8.86		0.0722	0.438	2
06135	Lead	7439-92-1	10.6		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.445		0.0547	0.109	2
06139	Nickel	7440-02-0	10.8		0.109	0.438	2
06141	Selenium	7782-49-2	0.133	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0374	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.290		0.0328	0.109	2
06148	Vanadium	7440-62-2	38.7		0.0241	0.109	2
06149	Zinc	7440-66-6	59.3		0.613	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0128	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	7.4		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	0.45	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	448		10.0	10.0	1
	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.	10.4		0.50	0.50	1

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

Sample Description: SL-032-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124074
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 13:48 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL032 SDG#: DE004-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/14/2010 04:02	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/23/2010 01:21	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 02:38	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 00:18	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 06:30	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 09:52	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 16:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 09:52	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 09:52	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 09:52	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 16:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 16:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 09:52	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 09:52	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 09:52	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 16:47	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 09:52	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 16:51	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 09:52	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:02	David K Beck	2

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

Sample Description: SL-032-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124074
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 13:48 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL032 SDG#: DE004-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:02	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:02	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 18:31	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 18:51	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10313243201A	11/11/2010 10:26	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401A	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-026-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124075
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:45 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL026 SDG#: DE004-05

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	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	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	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	Diethylphthalate	84-66-2	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	Dimethylphthalate	131-11-3	18	U	18	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	47	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

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

Sample Description: SL-026-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124075
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:45 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL026 SDG#: DE004-05

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**	
	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	18	U	18	180	1
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	7.2	U	7.2	18	10
10138	Acenaphthylene	208-96-8	3.6	U	3.6	18	10
10138	Anthracene	120-12-7	3.6	U	3.6	18	10
10138	Benzo(a)anthracene	56-55-3	11	J	7.2	18	10
10138	Benzo(a)pyrene	50-32-8	49		7.2	18	10
10138	Benzo(b)fluoranthene	205-99-2	100		7.2	18	10
10138	Benzo(g,h,i)perylene	191-24-2	13	J	7.2	18	10
10138	Benzo(k)fluoranthene	207-08-9	7.2	U	7.2	18	10
10138	Chrysene	218-01-9	70		3.6	18	10
10138	Dibenz(a,h)anthracene	53-70-3	7.2	U	7.2	18	10
10138	Fluoranthene	206-44-0	7.2	U	7.2	18	10
10138	Fluorene	86-73-7	7.2	U	7.2	18	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.2	U	7.2	18	10
10138	1-Methylnaphthalene	90-12-0	7.2	U	7.2	18	10
10138	2-Methylnaphthalene	91-57-6	7.2	U	7.2	18	10
10138	Naphthalene	91-20-3	7.2	U	7.2	18	10
10138	N-Nitrosodimethylamine	62-75-9	7.2	U	7.2	18	10
10138	Phenanthrene	85-01-8	7.2	U	7.2	18	10
10138	Pyrene	129-00-0	30		7.2	18	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	13	U	13	13	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	130	J	82	270	1
10401	MCPP (Mecoprop)	93-65-2	140	U	140	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	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. Due to interfering peaks on the chromatogram, the values reported for MCPP and 2,4-DB represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

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

Sample Description: SL-026-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124075
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:45 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL026 SDG#: DE004-05

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	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	1.5	U	1.5	3.7	1
01363	p,p-DDD	72-54-8	0.23	U	0.23	0.37	1
01363	p,p-DDE	72-55-9	1.7	U	1.7	1.7	1
01363	p,p-DDT	50-29-3	1.8	U	1.8	1.8	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.27	U	0.27	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.37	1
01363	Endrin Ketone	53494-70-5	0.080	U	0.080	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.20	U	0.20	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

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.

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	3.0	J	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	1.9		0.36	1.8	1
10225	PCB-1260	11096-82-5	1.1	J	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	18,500		5.40	21.5	1
07914	Boron	7440-42-8	10.8		0.956	5.37	1
01650	Calcium	7440-70-2	4,070		6.58	21.5	1
01654	Iron	7439-89-6	22,500		5.06	21.5	1
01656	Lithium	7439-93-2	21.0		0.24	2.1	1
01657	Magnesium	7439-95-4	4,840		2.73	10.7	1
06958	Manganese	7439-96-5	300		0.0838	0.537	1
10145	Phosphorus	7723-14-0	360		0.601	10.7	1
01662	Potassium	7440-09-7	2,780		19.3	53.7	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124075
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:45 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL026 SDG#: DE004-05

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**	
01667	Sodium	7440-23-5	133		40.1	107	1
07968	Strontium	7440-24-6	21.1		0.0666	0.537	1
06969	Tin	7440-31-5	3.23	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,380		2.04	5.37	5
10146	Zirconium	7440-67-7	3.44	J	0.902	5.37	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.183	J	0.0644	0.215	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	4.75		0.0644	0.430	2
06126	Barium	7440-39-3	99.6		0.116	0.430	2
06127	Beryllium	7440-41-7	0.562		0.0172	0.107	2
06128	Cadmium	7440-43-9	0.139		0.0387	0.107	2
06131	Chromium	7440-47-3	21.4		0.129	0.430	2
06132	Cobalt	7440-48-4	5.84		0.0215	0.107	2
06133	Copper	7440-50-8	8.98		0.0709	0.430	2
06135	Lead	7439-92-1	9.91		0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.432		0.0537	0.107	2
06139	Nickel	7440-02-0	10.7		0.107	0.430	2
06141	Selenium	7782-49-2	0.113	J	0.0430	0.430	2
06142	Silver	7440-22-4	0.0348	J	0.0129	0.107	2
06145	Thallium	7440-28-0	0.250		0.0322	0.107	2
06148	Vanadium	7440-62-2	41.4		0.0236	0.107	2
06149	Zinc	7440-66-6	49.4		0.601	3.22	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0059	J	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	3.2		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	9.8	U	9.8	32.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.29	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	427		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	7.12		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	7.8		0.50	0.50	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124075
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:45 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL026 SDG#: DE004-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/14/2010 04:27	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/21/2010 20:38	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 03:05	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 00:32	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 06:48	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 09:55	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 16:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 09:55	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 09:55	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 09:55	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 16:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 16:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 09:55	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 09:55	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 09:55	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 16:54	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 09:55	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 16:57	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 09:55	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:05	David K Beck	2

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

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Analysis Report

Sample Description: SL-026-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124075
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:45 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL026 SDG#: DE004-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:05	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:05	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:05	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 18:46	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 19:15	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 10:33	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401A	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124076
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:10 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL038 SDG#: DE004-06

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	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	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

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Account # 13013

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Suite 210
Chantilly VA 20151

SL038 SDG#: DE004-06

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	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	0.90	J	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.8	J	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	J	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	8.0		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	2.1		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	14	J	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.5	19	1
10138	Fluoranthene	206-44-0	2.3		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	0.76	J	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	1.1	J	0.72	1.8	1
10138	Pyrene	129-00-0	2.0		0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	5.3	U	5.3	5.3	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	82	U	82	270	1
10401	MCPP (Mecoprop)	93-65-2	510		81	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	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.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1

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SL038 SDG#: DE004-06

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	Beta BHC	319-85-7	0.11	U	0.11	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	2.3	U	2.3	3.7	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37	1
01363	p,p-DDE	72-55-9	0.19	U	0.19	0.37	1
01363	p,p-DDT	50-29-3	0.22	U	0.22	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.11	U	0.11	0.37	1
01363	Endrin	72-20-8	0.071	U	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.37	1
01363	Endrin Ketone	53494-70-5	0.12	U	0.12	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.54	U	0.54	1.8	1
01363	Mirex	2385-85-5	0.20	U	0.20	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

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.

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	13,400		5.21	20.7	1
07914	Boron	7440-42-8	6.15		0.921	5.18	1
01650	Calcium	7440-70-2	2,960		6.34	20.7	1
01654	Iron	7439-89-6	19,900		4.87	20.7	1
01656	Lithium	7439-93-2	22.6		0.23	2.1	1
01657	Magnesium	7439-95-4	4,810		2.63	10.4	1
06958	Manganese	7439-96-5	277		0.0807	0.518	1
10145	Phosphorus	7723-14-0	511		0.580	10.4	1
01662	Potassium	7440-09-7	3,850		18.6	51.8	1
01667	Sodium	7440-23-5	62.2	J	38.6	104	1
07968	Strontium	7440-24-6	12.4		0.0642	0.518	1

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SL038 SDG#: DE004-06

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**	
06969	Tin	7440-31-5	3.16	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,360		1.97	5.18	5
10146	Zirconium	7440-67-7	2.58	J	0.869	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0867	J	0.0646	0.215	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	4.13		0.0646	0.431	2
06126	Barium	7440-39-3	81.5		0.116	0.431	2
06127	Beryllium	7440-41-7	0.420		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.100	J	0.0388	0.108	2
06131	Chromium	7440-47-3	19.7		0.129	0.431	2
06132	Cobalt	7440-48-4	5.00		0.0215	0.108	2
06133	Copper	7440-50-8	6.95		0.0710	0.431	2
06135	Lead	7439-92-1	6.82		0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.362		0.0538	0.108	2
06139	Nickel	7440-02-0	9.07		0.108	0.431	2
06141	Selenium	7782-49-2	0.111	J	0.0431	0.431	2
06142	Silver	7440-22-4	0.0206	J	0.0129	0.108	2
06145	Thallium	7440-28-0	0.244		0.0323	0.108	2
06148	Vanadium	7440-62-2	33.7		0.0237	0.108	2
06149	Zinc	7440-66-6	54.0		0.603	3.23	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	Fluoride by IC (solid)	16984-48-8	0.86	U	0.86	1.1	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		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.33	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	477		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	8.11		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	7.1		0.50	0.50	1

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SL038 SDG#: DE004-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/14/2010 04:52	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/22/2010 12:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/17/2010 02:56	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 00:47	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 07:07	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 09:59	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 17:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 09:59	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 09:59	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 09:59	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 17:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 17:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 09:59	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 09:59	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 09:59	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 17:07	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 09:59	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 17:11	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 09:59	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:08	David K Beck	2

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SL038 SDG#: DE004-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06131	Chromium	SW-846 6020	2	103021026001A	11/09/2010 02:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:08	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:08	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:08	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 19:32	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 20:03	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 10:47	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182102A	11/08/2010 12:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401A	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

Lancaster Laboratories

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

Analysis Report

Sample Description: EB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124077
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

EB-01 SDG#: DE004-07EB

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	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
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

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

Sample Description: EB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124077
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

EB-01 SDG#: DE004-07EB

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	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
	Benzoic acid was not recovered in the LCSD. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial analysis of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.0099	U	0.0099	0.049	1
10137	Acenaphthylene	208-96-8	0.0099	U	0.0099	0.049	1
10137	Anthracene	120-12-7	0.0099	U	0.0099	0.049	1
10137	Benzo(a)anthracene	56-55-3	0.0099	U	0.0099	0.049	1
10137	Benzo(a)pyrene	50-32-8	0.0099	U	0.0099	0.049	1
10137	Benzo(b)fluoranthene	205-99-2	0.0099	U	0.0099	0.049	1
10137	Benzo(g,h,i)perylene	191-24-2	0.0099	U	0.0099	0.049	1
10137	Benzo(k)fluoranthene	207-08-9	0.0099	U	0.0099	0.049	1
10137	Butylbenzylphthalate	85-68-7	0.049	U	0.049	0.99	1
10137	Di-n-butylphthalate	84-74-2	0.17	J	0.049	0.99	1
10137	Chrysene	218-01-9	0.0099	U	0.0099	0.049	1
10137	Dibenz(a,h)anthracene	53-70-3	0.0099	U	0.0099	0.049	1
10137	Diethylphthalate	84-66-2	0.055	J	0.049	0.99	1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.99	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.13	J	0.049	0.99	1
10137	Fluoranthene	206-44-0	0.0099	U	0.0099	0.049	1
10137	Fluorene	86-73-7	0.0099	U	0.0099	0.049	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0099	U	0.0099	0.049	1
10137	1-Methylnaphthalene	90-12-0	0.0099	U	0.0099	0.049	1
10137	2-Methylnaphthalene	91-57-6	0.0099	U	0.0099	0.049	1
10137	Naphthalene	91-20-3	0.077		0.0099	0.049	1
10137	N-Nitrosodimethylamine	62-75-9	0.0099	U	0.0099	0.049	1
10137	Di-n-octylphthalate	117-84-0	0.049	U	0.049	0.99	1
10137	Phenanthrene	85-01-8	0.0099	U	0.0099	0.049	1
10137	Pyrene	129-00-0	0.0099	U	0.0099	0.049	1
	The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.15	U	0.15	0.48	1
10407	Dalapon	75-99-0	0.24	U	0.24	1.2	1
10407	2,4-DB	94-82-6	0.29	U	0.29	0.96	1
10407	Dicamba	1918-00-9	0.077	U	0.077	0.29	1
10407	Dinoseb	88-85-7	0.096	U	0.096	0.48	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.15	U	0.15	0.48	1
10407	MCPA	94-74-6	290	U	290	960	1
10407	MCPP	93-65-2	48	U	48	190	1
10407	2,4,5-T	93-76-5	0.014	U	0.014	0.048	1
10407	2,4,5-TP	93-72-1	0.0096	U	0.0096	0.048	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0019	U	0.0019	0.0096	1
00177	Alpha BHC	319-84-6	0.0029	U	0.0029	0.0096	1

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

Sample Description: EB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124077
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

EB-01 SDG#: DE004-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Beta BHC	319-85-7	0.0028	U	0.0028	0.0096	1
00177	Gamma BHC - Lindane	58-89-9	0.0019	U	0.0019	0.0096	1
00177	Chlordane	57-74-9	0.12	U	0.12	0.48	1
00177	p,p-DDD	72-54-8	0.0048	U	0.0048	0.019	1
00177	p,p-DDE	72-55-9	0.0048	U	0.0048	0.019	1
00177	p,p-DDT	50-29-3	0.0048	U	0.0048	0.019	1
00177	Delta BHC	319-86-8	0.0028	U	0.0028	0.0096	1
00177	Dieldrin	60-57-1	0.0051	U	0.0051	0.019	1
00177	Endosulfan I	959-98-8	0.0041	U	0.0041	0.0096	1
00177	Endosulfan II	33213-65-9	0.014	U	0.014	0.019	1
00177	Endosulfan Sulfate	1031-07-8	0.0052	U	0.0052	0.019	1
00177	Endrin	72-20-8	0.0053	U	0.0053	0.019	1
00177	Endrin Aldehyde	7421-93-4	0.019	U	0.019	0.096	1
00177	Endrin Ketone	53494-70-5	0.0048	U	0.0048	0.019	1
00177	Heptachlor	76-44-8	0.011		0.0019	0.0096	1
00177	Heptachlor Epoxide	1024-57-3	0.0022	U	0.0022	0.0096	1
00177	Methoxychlor	72-43-5	0.029	U	0.029	0.096	1
00177	Mirex	2385-85-5	0.081	U	0.081	0.24	1
00177	Toxaphene	8001-35-2	0.96	U	0.96	2.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.096	U	0.096	0.48	1
10227	Aroclor 5442	12642-23-8	0.096	U	0.096	0.48	1
10227	Aroclor 5460	11126-42-4	0.096	U	0.096	0.48	1
10227	PCB-1016	12674-11-2	0.096	U	0.096	0.48	1
10227	PCB-1221	11104-28-2	0.096	U	0.096	0.48	1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.48	1
10227	PCB-1242	53469-21-9	0.096	U	0.096	0.48	1
10227	PCB-1248	12672-29-6	0.096	U	0.096	0.48	1
10227	PCB-1254	11097-69-1	0.096	U	0.096	0.48	1
10227	PCB-1260	11096-82-5	0.096	U	0.096	0.48	1
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.48	1
10227	PCB-1268	11100-14-4	0.15	U	0.15	0.48	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

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

Sample Description: EB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124077
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

EB-01 SDG#: DE004-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 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
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
	The holding time was not met. The sample was submitted to the laboratory outside of the holding time.					
	EPA 150.1		**Std. Units**	**Std. Units**	**Std. Units**	
00200	pH	n.a.	5.7	0.010	0.010	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
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10301WAB026	11/13/2010 02:49	Ryan P Byrne	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10301WAG026	11/19/2010 14:39	Mark A Clark	1

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

Sample Description: EB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124077
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:05 by KB

Submitted: 10/27/2010 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE004-07EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00813	BNA Water Extraction	SW-846 3510C	1	10301WAB026	10/28/2010 14:00	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10301WAG026	10/28/2010 22:00	Elaine F Stoltzfus	1
10407	Herb water 8151A Master	SW-846 8151A	1	103010017A	11/01/2010 03:10	Michele D Hamilton	1
00177	OC Pesticides in Water	SW-846 8081A	1	103010005A	11/08/2010 23:26	Lisa A Reinert	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103010006A	11/04/2010 14:57	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103010006A	10/28/2010 16:55	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103010005A	10/28/2010 16:55	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103010017A	10/29/2010 08:30	Kerrie A Freeburn	1
01743	Aluminum	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
08014	Boron	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
01750	Calcium	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
01754	Iron	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
01756	Lithium	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
07058	Manganese	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
01762	Potassium	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
01767	Sodium	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
08068	Strontium	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
07069	Tin	SW-846 6010B	1	103051848002	11/09/2010 15:08	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103051848002	11/05/2010 17:27	John P Hook	1
06024	Antimony	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06025	Arsenic	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06026	Barium	SW-846 6020	1	103056050001D	11/08/2010 01:38	David K Beck	1
06027	Beryllium	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06028	Cadmium	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06031	Chromium	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06032	Cobalt	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06033	Copper	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06035	Lead	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06038	Molybdenum	SW-846 6020	1	103056050001C	11/08/2010 01:38	David K Beck	1
06039	Nickel	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06041	Selenium	SW-846 6020	1	103056050001B	11/08/2010 01:38	David K Beck	1
06042	Silver	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06045	Thallium	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06048	Vanadium	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
06049	Zinc	SW-846 6020	1	103056050001A	11/08/2010 01:38	David K Beck	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103051848002	11/01/2010 21:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103056050001	11/01/2010 21:00	Mirit S Shenouda	1
01504	Fluoride	EPA 300.0	1	10305196602A	11/02/2010 01:54	Ashley M Adams	1
06019	Perchlorate	EPA 314.0	1	10307621701A	11/03/2010 12:20	William L Hamaker Jr	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: EB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124077
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

EB-01 SDG#: DE004-07EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06467	Hexavalent Chromium (water)	SW-846 7199	1	10300621301A	10/27/2010 11:10	William L Hamaker Jr	1
00200	pH	EPA 150.1	1	10301020001A	10/28/2010 13:30	Michele L Graham	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: FB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124078
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-01 SDG#: DE004-08FB

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	19	U	19	58	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
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

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

Sample Description: FB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124078
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-01 SDG#: DE004-08FB

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	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
	Benzoic acid was not recovered in the LCSD. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial analysis of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.0097	U	0.0097	0.049	1
10137	Acenaphthylene	208-96-8	0.0097	U	0.0097	0.049	1
10137	Anthracene	120-12-7	0.0097	U	0.0097	0.049	1
10137	Benzo(a)anthracene	56-55-3	0.0097	U	0.0097	0.049	1
10137	Benzo(a)pyrene	50-32-8	0.0097	U	0.0097	0.049	1
10137	Benzo(b)fluoranthene	205-99-2	0.0097	U	0.0097	0.049	1
10137	Benzo(g,h,i)perylene	191-24-2	0.0097	U	0.0097	0.049	1
10137	Benzo(k)fluoranthene	207-08-9	0.0097	U	0.0097	0.049	1
10137	Butylbenzylphthalate	85-68-7	0.049	U	0.049	0.97	1
10137	Di-n-butylphthalate	84-74-2	0.16	J	0.049	0.97	1
10137	Chrysene	218-01-9	0.0097	U	0.0097	0.049	1
10137	Dibenz(a,h)anthracene	53-70-3	0.0097	U	0.0097	0.049	1
10137	Diethylphthalate	84-66-2	0.056	J	0.049	0.97	1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.97	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.11	J	0.049	0.97	1
10137	Fluoranthene	206-44-0	0.0097	U	0.0097	0.049	1
10137	Fluorene	86-73-7	0.0097	U	0.0097	0.049	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0097	U	0.0097	0.049	1
10137	1-Methylnaphthalene	90-12-0	0.0097	U	0.0097	0.049	1
10137	2-Methylnaphthalene	91-57-6	0.0097	U	0.0097	0.049	1
10137	Naphthalene	91-20-3	0.079		0.0097	0.049	1
10137	N-Nitrosodimethylamine	62-75-9	0.0097	U	0.0097	0.049	1
10137	Di-n-octylphthalate	117-84-0	0.049	U	0.049	0.97	1
10137	Phenanthrene	85-01-8	0.0097	U	0.0097	0.049	1
10137	Pyrene	129-00-0	0.0097	U	0.0097	0.049	1
	The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.15	U	0.15	0.48	1
10407	Dalapon	75-99-0	0.24	U	0.24	1.2	1
10407	2,4-DB	94-82-6	0.29	U	0.29	0.97	1
10407	Dicamba	1918-00-9	0.077	U	0.077	0.29	1
10407	Dinoseb	88-85-7	0.097	U	0.097	0.48	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.15	U	0.15	0.48	1
10407	MCPA	94-74-6	290	U	290	970	1
10407	MCPP	93-65-2	48	U	48	190	1
10407	2,4,5-T	93-76-5	0.014	U	0.014	0.048	1
10407	2,4,5-TP	93-72-1	0.0097	U	0.0097	0.048	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.0098	1
00177	Alpha BHC	319-84-6	0.0029	U	0.0029	0.0098	1

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

Sample Description: FB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124078
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-01 SDG#: DE004-08FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Beta BHC	319-85-7	0.0028	U	0.0028	0.0098	1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.0098	1
00177	Chlordane	57-74-9	0.12	U	0.12	0.49	1
00177	p,p-DDD	72-54-8	0.0049	U	0.0049	0.020	1
00177	p,p-DDE	72-55-9	0.0049	U	0.0049	0.020	1
00177	p,p-DDT	50-29-3	0.0049	U	0.0049	0.020	1
00177	Delta BHC	319-86-8	0.0028	U	0.0028	0.0098	1
00177	Dieldrin	60-57-1	0.0052	U	0.0052	0.020	1
00177	Endosulfan I	959-98-8	0.0042	U	0.0042	0.0098	1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020	1
00177	Endosulfan Sulfate	1031-07-8	0.0053	U	0.0053	0.020	1
00177	Endrin	72-20-8	0.0054	U	0.0054	0.020	1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.098	1
00177	Endrin Ketone	53494-70-5	0.0049	U	0.0049	0.020	1
00177	Heptachlor	76-44-8	0.011		0.0020	0.0098	1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.0098	1
00177	Methoxychlor	72-43-5	0.029	U	0.029	0.098	1
00177	Mirex	2385-85-5	0.083	U	0.083	0.24	1
00177	Toxaphene	8001-35-2	0.98	U	0.98	2.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49	1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49	1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49	1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49	1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49	1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49	1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49	1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49	1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49	1
10227	PCB-1260	11096-82-5	0.098	U	0.098	0.49	1
10227	PCB-1262	37324-23-5	0.20	U	0.20	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

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

Sample Description: FB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124078
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-01 SDG#: DE004-08FB

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
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
	The holding time was not met. The sample was submitted to the laboratory outside of the holding time.					
	EPA 150.1		**Std. Units**	**Std. Units**	**Std. Units**	
00200	pH	n.a.	5.6	0.010	0.010	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
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10301WAB026	11/13/2010 03:14	Ryan P Byrne	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10301WAG026	11/19/2010 15:10	Mark A Clark	1

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

Sample Description: FB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124078
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-01 SDG#: DE004-08FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00813	BNA Water Extraction	SW-846 3510C	1	10301WAB026	10/28/2010 14:00	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10301WAG026	10/28/2010 22:00	Elaine F Stoltzfus	1
10407	Herb water 8151A Master	SW-846 8151A	1	103010017A	11/01/2010 03:38	Michele D Hamilton	1
00177	OC Pesticides in Water	SW-846 8081A	1	103010005A	11/08/2010 23:38	Lisa A Reinert	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103010006A	11/04/2010 15:15	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103010006A	10/28/2010 16:55	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103010005A	10/28/2010 16:55	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103010017A	10/29/2010 08:30	Kerrie A Freeburn	1
01743	Aluminum	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
08014	Boron	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
01750	Calcium	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
01754	Iron	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
01756	Lithium	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
07058	Manganese	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
01762	Potassium	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
01767	Sodium	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
08068	Strontium	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
07069	Tin	SW-846 6010B	1	103051848002	11/09/2010 15:12	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103051848002	11/05/2010 17:30	John P Hook	1
06024	Antimony	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06025	Arsenic	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06026	Barium	SW-846 6020	1	103056050001D	11/08/2010 01:41	David K Beck	1
06027	Beryllium	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06028	Cadmium	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06031	Chromium	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06032	Cobalt	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06033	Copper	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06035	Lead	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06038	Molybdenum	SW-846 6020	1	103056050001C	11/08/2010 01:41	David K Beck	1
06039	Nickel	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06041	Selenium	SW-846 6020	1	103056050001B	11/08/2010 01:41	David K Beck	1
06042	Silver	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06045	Thallium	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06048	Vanadium	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
06049	Zinc	SW-846 6020	1	103056050001A	11/08/2010 01:41	David K Beck	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103051848002	11/01/2010 21:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103056050001	11/01/2010 21:00	Mirit S Shenouda	1
01504	Fluoride	EPA 300.0	1	10305196602A	11/02/2010 02:12	Ashley M Adams	1
06019	Perchlorate	EPA 314.0	1	10307621701A	11/03/2010 12:44	William L Hamaker Jr	1

Lancaster Laboratories

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

Analysis Report

Sample Description: FB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124078
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:15 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-01 SDG#: DE004-08FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06467	Hexavalent Chromium (water)	SW-846 7199	1	10300621301A	10/27/2010 11:25	William L Hamaker Jr	1
00200	pH	EPA 150.1	1	10301020001A	10/28/2010 13:30	Michele L Graham	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124079
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09BKG

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	2,100	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
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

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

Sample Description: SL-041-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124079
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09BKG

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	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	6.4	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	0.72	U	0.72	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	0.72	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	6.4	U	6.4	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
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	550		82	270	1
10401	MCPP (Mecoprop)	93-65-2	340		80	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.36	U	0.36	0.36	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.075	U	0.075	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.050	U	0.050	0.18	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.

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

Sample Description: SL-041-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124079
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09BKG

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	Chlordane	57-74-9	5.2	U	5.2	5.2	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36	1
01363	p,p-DDE	72-55-9	1.3	U	1.3	1.3	1
01363	p,p-DDT	50-29-3	0.071	U	0.071	0.36	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.31	U	0.31	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.32	U	0.32	0.36	1
01363	Endrin	72-20-8	0.42	U	0.42	0.42	1
01363	Endrin Aldehyde	7421-93-4	0.39	U	0.39	0.39	1
01363	Endrin Ketone	53494-70-5	0.21	U	0.21	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.58	U	0.58	0.58	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

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.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.1	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.1	2
10225	Aroclor 5460	11126-42-4	3.5	J	2.1	7.1	2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.6	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6	2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.6	2
10225	PCB-1254	11097-69-1	31		0.71	3.6	2
10225	PCB-1260	11096-82-5	0.71	U	0.71	3.6	2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.6	2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.6	2

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	8,620		5.34	21.2	1
07914	Boron	7440-42-8	5.27	J	0.945	5.31	1
01650	Calcium	7440-70-2	3,830		6.51	21.2	1
01654	Iron	7439-89-6	12,600		5.00	21.2	1
01656	Lithium	7439-93-2	13.0		0.23	2.1	1
01657	Magnesium	7439-95-4	2,580		2.70	10.6	1
06958	Manganese	7439-96-5	209		0.0829	0.531	1
10145	Phosphorus	7723-14-0	369		0.595	10.6	1
01662	Potassium	7440-09-7	1,590		19.1	53.1	1
01667	Sodium	7440-23-5	69.0	J	39.6	106	1
07968	Strontium	7440-24-6	19.6		0.0659	0.531	1
06969	Tin	7440-31-5	2.37	J	1.06	10.6	1
06970	Titanium	7440-32-6	679		0.404	1.06	1

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

Sample Description: SL-041-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124079
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09BKG

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**	
10146	Zirconium	7440-67-7	3.12	J	0.892	5.31	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0637	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	3.62		0.0637	0.425	2
06126	Barium	7440-39-3	67.6		0.115	0.425	2
06127	Beryllium	7440-41-7	0.398		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.105	J	0.0382	0.106	2
06131	Chromium	7440-47-3	16.1		0.127	0.425	2
06132	Cobalt	7440-48-4	4.83		0.0212	0.106	2
06133	Copper	7440-50-8	6.37		0.0701	0.425	2
06135	Lead	7439-92-1	4.16		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.628		0.0531	0.106	2
06139	Nickel	7440-02-0	9.32		0.106	0.425	2
06141	Selenium	7782-49-2	0.330	J	0.0425	0.425	2
06142	Silver	7440-22-4	0.0267	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.185		0.0319	0.106	2
06148	Vanadium	7440-62-2	27.8		0.0234	0.106	2
06149	Zinc	7440-66-6	41.1		0.595	3.19	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088	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	1.5		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	9.7	U	9.7	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	1.3		0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	440		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	7.26		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	6.8		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.						

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

Sample Description: SL-041-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124079
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09BKG

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	10305SLC026	11/14/2010 01:31	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/21/2010 16:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/17/2010 03:24	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 01:02	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 07:26	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 09:15	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 15:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 09:15	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 09:15	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 09:15	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 15:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 15:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 09:15	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 09:15	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 09:15	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 15:54	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 09:15	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 15:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 09:15	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 04:27	David K Beck	2
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 04:27	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 04:27	David K Beck	2

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

Sample Description: SL-041-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124079
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 04:27	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 16:54	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 16:26	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10313243201A	11/11/2010 11:08	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	3	10312182102A	11/08/2010 12:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401B	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-041-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124080
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MS

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	1,200		180	540	1
04688	Anthracene	120-12-7	1,800		18	180	1
04688	Benzidine	92-87-5	3,600	J	1,300	3,600	1
04688	Benzo(a)anthracene	56-55-3	1,900		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180	1
04688	Benzoic acid	65-85-0	910		180	540	1
04688	Benzyl alcohol	100-51-6	1,700		180	540	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	1,700		18	180	1
04688	Carbazole	86-74-8	1,800		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		36	180	1
04688	4-Chloroaniline	106-47-8	1,200		72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,700		18	180	1
04688	2-Chlorophenol	95-57-8	1,600		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		36	180	1
04688	Chrysene	218-01-9	1,800		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		18	180	1
04688	Dibenzofuran	132-64-9	1,700		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	1,600		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,700		110	360	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		36	180	1
04688	3,5-Dimethylphenol	108-68-9	1,700		36	180	1
04688	Dimethylphthalate	131-11-3	1,600		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	650		180	540	1
04688	2,4-Dinitrophenol	51-28-5	920	J	720	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,600		36	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	360	1
04688	Fluoranthene	206-44-0	1,800		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	1,800		72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	1,100		180	540	1
04688	Hexachloroethane	67-72-1	1,400		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		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-041-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124080
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MS

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	1,700	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180	1
04688	2-Methylphenol	95-48-7	1,600	36	180	1
04688	4-Methylphenol	106-44-5	1,700	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	Naphthalene	91-20-3	1,700	18	180	1
04688	2-Nitroaniline	88-74-4	1,700	18	180	1
04688	3-Nitroaniline	99-09-2	1,700	36	180	1
04688	4-Nitroaniline	100-01-6	1,300	72	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	1,600	180	540	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	36	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	1,800	18	180	1
04688	Pentachlorophenol	87-86-5	1,600	180	540	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	1,800	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33	0.72	1.8	1
10138	Acenaphthylene	208-96-8	30	0.36	1.8	1
10138	Anthracene	120-12-7	33	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	35	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	33	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	28	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	33	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	42	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	38	6.4	19	1
10138	Chrysene	218-01-9	35	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	30	0.72	1.8	1
10138	Diethylphthalate	84-66-2	36	6.4	19	1
10138	Dimethylphthalate	131-11-3	35	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39	6.4	19	1
10138	Fluoranthene	206-44-0	34	0.72	1.8	1
10138	Fluorene	86-73-7	34	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	33	0.72	1.8	1

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

Sample Description: SL-041-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124080
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MS

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	29		0.72	1.8	1
10138	Naphthalene	91-20-3	31		0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	28		0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	37		6.4	19	1
10138	Phenanthrene	85-01-8	34		0.72	1.8	1
10138	Pyrene	129-00-0	38		0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.1		1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	12		0.86	1.8	1
10401	MCPA	94-74-6	580		82	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.90		0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.76		0.080	0.18	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.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.43		0.071	0.18	1
01363	Alpha BHC	319-84-6	0.39		0.036	0.18	1
01363	Beta BHC	319-85-7	0.36		0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.42		0.036	0.18	1
01363	Chlordane	57-74-9	7.3	U	7.3	7.3	1
01363	p,p-DDD	72-54-8	0.79		0.071	0.36	1
01363	p,p-DDE	72-55-9	2.3		0.071	0.36	1
01363	p,p-DDT	50-29-3	1.7		0.071	0.36	1
01363	Delta BHC	319-86-8	0.27		0.039	0.18	1
01363	Dieldrin	60-57-1	1.0		0.071	0.36	1
01363	Endosulfan I	959-98-8	0.40		0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.62		0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.76		0.071	0.36	1
01363	Endrin	72-20-8	0.97		0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.88		0.071	0.36	1
01363	Endrin Ketone	53494-70-5	0.68		0.071	0.36	1
01363	Heptachlor	76-44-8	0.50		0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	7.5		0.36	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.36	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.1	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.1	2
10225	Aroclor 5460	11126-42-4	2.1	U	2.1	7.1	2

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

Sample Description: **SL-041-SA5C-SS-0.0-0.5 MS Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124080
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MS

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-1016	12674-11-2	22		0.71	3.6	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6	2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.6	2
10225	PCB-1254	11097-69-1	28		0.71	3.6	2
10225	PCB-1260	11096-82-5	20		0.71	3.6	2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.6	2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.6	2
	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	12,500		5.40	21.5	1
07914	Boron	7440-42-8	225		0.955	5.36	1
01650	Calcium	7440-70-2	4,200		6.58	21.5	1
01654	Iron	7439-89-6	14,200		5.05	21.5	1
01656	Lithium	7439-93-2	125		0.24	2.1	1
01657	Magnesium	7439-95-4	3,370		2.73	10.7	1
06958	Manganese	7439-96-5	285		0.0837	0.536	1
10145	Phosphorus	7723-14-0	530		0.601	10.7	1
01662	Potassium	7440-09-7	3,120		19.3	53.6	1
01667	Sodium	7440-23-5	1,210		40.0	107	1
07968	Strontium	7440-24-6	133		0.0665	0.536	1
06969	Tin	7440-31-5	425		1.07	10.7	1
06970	Titanium	7440-32-6	1,090		2.04	5.36	5
10146	Zirconium	7440-67-7	116		0.901	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.556		0.0625	0.208	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	5.92		0.0625	0.417	2
06126	Barium	7440-39-3	80.3		0.113	0.417	2
06127	Beryllium	7440-41-7	1.13		0.0167	0.104	2
06128	Cadmium	7440-43-9	1.12		0.0375	0.104	2
06131	Chromium	7440-47-3	26.4		0.125	0.417	2
06132	Cobalt	7440-48-4	53.1		0.0208	0.104	2
06133	Copper	7440-50-8	16.0		0.0688	0.417	2
06135	Lead	7439-92-1	7.54		0.0108	0.208	2
06138	Molybdenum	7439-98-7	10.5		0.0521	0.104	2
06139	Nickel	7440-02-0	19.0		0.104	0.417	2
06141	Selenium	7782-49-2	2.30		0.0417	0.417	2
06142	Silver	7440-22-4	10.6		0.0125	0.104	2
06145	Thallium	7440-28-0	0.644		0.0313	0.104	2
06148	Vanadium	7440-62-2	38.7		0.0229	0.104	2
06149	Zinc	7440-66-6	51.0		0.583	3.13	2

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

Sample Description: SL-041-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124080
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MS

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.200	0.0030	0.106	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)		16984-48-8	11.3	0.86	1.1	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil		14797-73-0	559	9.7	32.2	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC		18540-29-9	36.0	1.1	5.4	5
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture CDM		n.a.	6.8	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	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10305SLC026	11/14/2010 01:56	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/21/2010 17:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 00:21	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 01:16	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 07:44	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 09:25	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 16:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 09:25	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 09:25	Damary Valentin	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124080
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 09:25	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 16:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 16:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 09:25	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 09:25	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 09:25	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 16:04	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 09:25	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 16:14	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 09:25	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 04:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 04:36	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 04:36	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 04:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 17:30	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 17:15	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10313243201A	11/11/2010 11:36	William L Hamaker Jr	5
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124081
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MSD

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	1,800		18	180	1
04688	Aniline	62-53-3	1,300		180	540	1
04688	Anthracene	120-12-7	1,800		18	180	1
04688	Benzidine	92-87-5	2,900	J	1,300	3,600	1
04688	Benzo(a)anthracene	56-55-3	1,900		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180	1
04688	Benzoic acid	65-85-0	850		180	540	1
04688	Benzyl alcohol	100-51-6	1,700		180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		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	1,800		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		36	180	1
04688	4-Chloroaniline	106-47-8	1,300		72	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	1,800		18	180	1
04688	2-Chlorophenol	95-57-8	1,700		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		36	180	1
04688	Chrysene	218-01-9	1,800		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		18	180	1
04688	Dibenzofuran	132-64-9	1,700		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,800		110	360	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	1,800		36	180	1
04688	3,5-Dimethylphenol	108-68-9	1,700		36	180	1
04688	Dimethylphthalate	131-11-3	1,700		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	630		180	540	1
04688	2,4-Dinitrophenol	51-28-5	850	J	720	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,600		36	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	360	1
04688	Fluoranthene	206-44-0	1,800		18	180	1
04688	Fluorene	86-73-7	1,700		18	180	1
04688	Hexachlorobenzene	118-74-1	1,900		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,800		72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	1,200		180	540	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		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-041-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124081
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MSD

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	1,600	36	180	1
04688	4-Methylphenol	106-44-5	1,700	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	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	36	180	1
04688	4-Nitroaniline	100-01-6	1,300	72	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	1,600	180	540	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	36	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	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	1,800	18	180	1
04688	Pentachlorophenol	87-86-5	1,600	180	540	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	1,800	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33	0.72	1.8	1
10138	Acenaphthylene	208-96-8	31	0.36	1.8	1
10138	Anthracene	120-12-7	34	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	36	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	33	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	28	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	34	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	40	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	38	6.4	19	1
10138	Chrysene	218-01-9	36	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	30	0.72	1.8	1
10138	Diethylphthalate	84-66-2	36	6.4	19	1
10138	Dimethylphthalate	131-11-3	35	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39	6.4	19	1
10138	Fluoranthene	206-44-0	35	0.72	1.8	1
10138	Fluorene	86-73-7	35	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	34	0.72	1.8	1

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

Sample Description: SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124081
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MSD

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	30		0.72	1.8	1
10138	Naphthalene	91-20-3	31		0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	27		0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	37		6.4	19	1
10138	Phenanthrene	85-01-8	35		0.72	1.8	1
10138	Pyrene	129-00-0	38		0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.9		1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.94	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.95	J	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.1		0.86	1.8	1
10401	MCPA	94-74-6	690		82	270	1
10401	MCPP (Mecoprop)	93-65-2	920		80	270	1
10401	2,4,5-T	93-76-5	1.0		0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.61		0.080	0.18	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.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.32		0.036	0.18	1
01363	Beta BHC	319-85-7	0.35		0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.43		0.036	0.18	1
01363	Chlordane	57-74-9	15	U	15	15	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36	1
01363	p,p-DDE	72-55-9	15		0.071	0.36	1
01363	p,p-DDT	50-29-3	0.071	U	0.071	0.36	1
01363	Delta BHC	319-86-8	0.27		0.039	0.18	1
01363	Dieldrin	60-57-1	2.8		0.071	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.76		0.071	0.36	1
01363	Endrin	72-20-8	3.9		0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	1.1		0.071	0.36	1
01363	Endrin Ketone	53494-70-5	0.71		0.071	0.36	1
01363	Heptachlor	76-44-8	0.62		0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	7.6		0.36	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.36	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.1	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.1	2
10225	Aroclor 5460	11126-42-4	2.1	U	2.1	7.1	2

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

Sample Description: SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124081
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MSD

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-1016	12674-11-2	22		0.71	3.6	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6	2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.6	2
10225	PCB-1254	11097-69-1	27		0.71	3.6	2
10225	PCB-1260	11096-82-5	19		0.71	3.6	2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.6	2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.6	2
	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	11,500		5.34	21.2	1
07914	Boron	7440-42-8	221		0.945	5.31	1
01650	Calcium	7440-70-2	5,940		6.51	21.2	1
01654	Iron	7439-89-6	14,300		5.00	21.2	1
01656	Lithium	7439-93-2	124		0.23	2.1	1
01657	Magnesium	7439-95-4	3,380		2.70	10.6	1
06958	Manganese	7439-96-5	259		0.0829	0.531	1
10145	Phosphorus	7723-14-0	517		0.595	10.6	1
01662	Potassium	7440-09-7	3,030		19.1	53.1	1
01667	Sodium	7440-23-5	1,220		39.6	106	1
07968	Strontium	7440-24-6	146		0.0659	0.531	1
06969	Tin	7440-31-5	413		1.06	10.6	1
06970	Titanium	7440-32-6	1,010		2.02	5.31	5
10146	Zirconium	7440-67-7	115		0.892	5.31	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.657		0.0637	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	7.47		0.0637	0.425	2
06126	Barium	7440-39-3	97.9		0.115	0.425	2
06127	Beryllium	7440-41-7	1.26		0.0170	0.106	2
06128	Cadmium	7440-43-9	1.28		0.0382	0.106	2
06131	Chromium	7440-47-3	28.6		0.127	0.425	2
06132	Cobalt	7440-48-4	53.0		0.0212	0.106	2
06133	Copper	7440-50-8	19.3		0.0701	0.425	2
06135	Lead	7439-92-1	8.55		0.0110	0.212	2
06138	Molybdenum	7439-98-7	11.2		0.0531	0.106	2
06139	Nickel	7440-02-0	19.6		0.106	0.425	2
06141	Selenium	7782-49-2	2.32		0.0425	0.425	2
06142	Silver	7440-22-4	10.9		0.0127	0.106	2
06145	Thallium	7440-28-0	0.656		0.0319	0.106	2
06148	Vanadium	7440-62-2	42.8		0.0234	0.106	2
06149	Zinc	7440-66-6	60.6		0.595	3.19	2

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

Sample Description: SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124081
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 7471A**		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.185	0.0030	0.105	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture CDM	n.a.	6.8	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	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10305SLC026	11/14/2010 02:21	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/21/2010 17:51	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 00:48	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 01:31	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 08:03	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 09:28	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 16:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 09:28	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 09:28	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 09:28	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 16:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 16:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 09:28	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 09:28	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 09:28	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 16:07	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 09:28	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 16:17	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 09:28	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124081
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 04:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 04:40	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 04:40	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 04:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5C-SS-0.0-0.5 DUP Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124082
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09DUP

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	10,300		5.34	21.2	1
07914	Boron	7440-42-8	5.54		0.945	5.31	1
01650	Calcium	7440-70-2	4,410		6.51	21.2	1
01654	Iron	7439-89-6	14,400		5.00	21.2	1
01656	Lithium	7439-93-2	15.7		0.23	2.1	1
01657	Magnesium	7439-95-4	3,030		2.70	10.6	1
06958	Manganese	7439-96-5	229		0.0829	0.531	1
10145	Phosphorus	7723-14-0	440		0.595	10.6	1
01662	Potassium	7440-09-7	1,800		19.1	53.1	1
01667	Sodium	7440-23-5	82.5	J	39.6	106	1
07968	Strontium	7440-24-6	20.7		0.0659	0.531	1
06969	Tin	7440-31-5	2.55	J	1.06	10.6	1
06970	Titanium	7440-32-6	787		0.404	1.06	1
10146	Zirconium	7440-67-7	3.75	J	0.892	5.31	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0631	U	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	3.23		0.0631	0.421	2
06126	Barium	7440-39-3	56.9		0.114	0.421	2
06127	Beryllium	7440-41-7	0.314		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.0967	J	0.0379	0.105	2
06131	Chromium	7440-47-3	14.6		0.126	0.421	2
06132	Cobalt	7440-48-4	4.05		0.0210	0.105	2
06133	Copper	7440-50-8	5.78		0.0694	0.421	2
06135	Lead	7439-92-1	3.37		0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.552		0.0526	0.105	2
06139	Nickel	7440-02-0	8.74		0.105	0.421	2
06141	Selenium	7782-49-2	0.320	J	0.0421	0.421	2
06142	Silver	7440-22-4	0.0126	U	0.0126	0.105	2
06145	Thallium	7440-28-0	0.131		0.0316	0.105	2
06148	Vanadium	7440-62-2	24.8		0.0231	0.105	2
06149	Zinc	7440-66-6	34.3		0.589	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085	J	0.0029	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	1.6		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	9.7	U	9.7	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	2.9		0.21	1.1	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5C-SS-0.0-0.5 DUP Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124082
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09DUP

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.	444	10.0	10.0	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH		n.a.	7.26	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture CDM		n.a.	6.8	0.50	0.50	1
11626	Moisture Duplicate CDM		n.a.	7.4	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.

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	103025708003	11/07/2010 09:22	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 16:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 09:22	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 09:22	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 09:22	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 16:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 16:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 09:22	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 09:22	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 09:22	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 16:00	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 09:22	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 16:00	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 09:22	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 04:33	David K Beck	2
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5C-SS-0.0-0.5 DUP Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124082
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL041 SDG#: DE004-09DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 04:33	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 04:33	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 04:33	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 17:09	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 16:50	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 12:10	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	3	10312182102A	11/08/2010 12:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401B	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124083
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 11:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL043 SDG#: DE004-10

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	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	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	Diethylphthalate	84-66-2	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	Dimethylphthalate	131-11-3	18	U	18	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
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

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

Sample Description: SL-043-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124083
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 11:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL043 SDG#: DE004-10

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**	
	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	18	U	18	180	1
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	7.4	U	7.4	18	10
10138	Acenaphthylene	208-96-8	3.7	U	3.7	18	10
10138	Anthracene	120-12-7	3.7	U	3.7	18	10
10138	Benzo(a)anthracene	56-55-3	7.4	U	7.4	18	10
10138	Benzo(a)pyrene	50-32-8	7.4	U	7.4	18	10
10138	Benzo(b)fluoranthene	205-99-2	15	J	7.4	18	10
10138	Benzo(g,h,i)perylene	191-24-2	7.4	U	7.4	18	10
10138	Benzo(k)fluoranthene	207-08-9	7.4	U	7.4	18	10
10138	Chrysene	218-01-9	13	J	3.7	18	10
10138	Dibenz(a,h)anthracene	53-70-3	7.4	U	7.4	18	10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	88	J	66	200	10
10138	Fluoranthene	206-44-0	17	J	7.4	18	10
10138	Fluorene	86-73-7	7.4	U	7.4	18	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.4	U	7.4	18	10
10138	1-Methylnaphthalene	90-12-0	7.4	U	7.4	18	10
10138	2-Methylnaphthalene	91-57-6	7.4	U	7.4	18	10
10138	Naphthalene	91-20-3	7.4	U	7.4	18	10
10138	N-Nitrosodimethylamine	62-75-9	7.4	U	7.4	18	10
10138	Phenanthrene	85-01-8	7.4	U	7.4	18	10
10138	Pyrene	129-00-0	17	J	7.4	18	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	3.4	U	3.4	3.4	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	660		83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	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. Due to interfering peaks on the chromatogram, the values reported for 2,4-DP represent the lowest reporting limits attainable.						

Sample Description: SL-043-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124083
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 11:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL043 SDG#: DE004-10

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	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.070	J	0.038	0.18	1
01363	Chlordane	57-74-9	7.9	U	7.9	7.9	1
01363	p,p-DDD	72-54-8	0.71	U	0.71	0.71	1
01363	p,p-DDE	72-55-9	11	U	11	11	5
01363	p,p-DDT	50-29-3	4.3	U	4.3	4.3	5
01363	Delta BHC	319-86-8	0.57		0.040	0.18	1
01363	Dieldrin	60-57-1	0.39	U	0.39	0.39	1
01363	Endosulfan I	959-98-8	0.058	U	0.058	0.18	1
01363	Endosulfan II	33213-65-9	0.30	U	0.30	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.53	U	0.53	0.53	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	1.2	U	1.2	1.2	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

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	1.1	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	28		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	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	3.3		0.37	1.9	1
10225	PCB-1260	11096-82-5	4.9		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	16,800		5.46	21.7	1
07914	Boron	7440-42-8	10.8		0.966	5.43	1
01650	Calcium	7440-70-2	3,090		6.66	21.7	1
01654	Iron	7439-89-6	19,800		5.11	21.7	1
01656	Lithium	7439-93-2	21.2		0.24	2.2	1
01657	Magnesium	7439-95-4	4,200		2.76	10.9	1
06958	Manganese	7439-96-5	334		0.0847	0.543	1

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

Sample Description: SL-043-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124083
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 11:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL043 SDG#: DE004-10

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**	
10145	Phosphorus	7723-14-0	405		0.608	10.9	1
01662	Potassium	7440-09-7	2,440		19.5	54.3	1
01667	Sodium	7440-23-5	175		40.5	109	1
07968	Strontium	7440-24-6	31.9		0.0673	0.543	1
06969	Tin	7440-31-5	5.74	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,140		2.06	5.43	5
10146	Zirconium	7440-67-7	2.84	J	0.912	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.224		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	4.52		0.0651	0.434	2
06126	Barium	7440-39-3	98.2		0.117	0.434	2
06127	Beryllium	7440-41-7	0.539		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.843		0.0391	0.109	2
06131	Chromium	7440-47-3	25.7		0.130	0.434	2
06132	Cobalt	7440-48-4	5.15		0.0217	0.109	2
06133	Copper	7440-50-8	15.4		0.0717	0.434	2
06135	Lead	7439-92-1	23.4		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.674		0.0543	0.109	2
06139	Nickel	7440-02-0	12.7		0.109	0.434	2
06141	Selenium	7782-49-2	0.143	J	0.0434	0.434	2
06142	Silver	7440-22-4	0.269		0.0130	0.109	2
06145	Thallium	7440-28-0	0.240		0.0326	0.109	2
06148	Vanadium	7440-62-2	35.5		0.0239	0.109	2
06149	Zinc	7440-66-6	140		0.608	3.26	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	3.4		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	10	U	10	33.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	1.1		0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	486		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	7.08		0.0100	0.0100	1

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

Sample Description: SL-043-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124083
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 11:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL043 SDG#: DE004-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture CDM	n.a.	9.7	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

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	10305SLC026	11/14/2010 05:18	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/21/2010 21:43	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 04:55	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 01:46	Jamie L Brillhart	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 02:00	Jamie L Brillhart	5
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 08:21	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:02	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 17:14	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:02	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 10:02	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:02	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 17:14	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 17:14	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:02	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:02	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:02	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 17:14	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:02	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 17:17	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:02	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124083
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 11:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL043 SDG#: DE004-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:11	David K Beck	2
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:11	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:11	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:11	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 19:47	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 20:27	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 12:24	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182102A	11/08/2010 12:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401B	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA5C-QC-102510 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124084
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 10:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

DUP03 SDG#: DE004-11FD

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
04688	Phenol	108-95-2	18	U	18	180	1

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

Sample Description: DUP03-SA5C-QC-102510 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124084
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 10:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

DUP03 SDG#: DE004-11FD

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	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	1.4	J	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	8.1	J	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	1.6	J	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	8.7	J	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	2.2		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	0.99	J	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	9.7	J	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	2.1		0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	14	U	14	14	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	82	U	82	270	1
10401	MCPP (Mecoprop)	93-65-2	430		81	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	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.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.35	U	0.35	0.35	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1

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

Sample Description: DUP03-SA5C-QC-102510 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124084
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 10:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

DUP03 SDG#: DE004-11FD

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	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.048	U	0.048	0.18	1
01363	Chlordane	57-74-9	5.4	U	5.4	5.4	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37	1
01363	p,p-DDE	72-55-9	1.3	U	1.3	1.3	1
01363	p,p-DDT	50-29-3	0.071	U	0.071	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.32	U	0.32	0.37	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.50	U	0.50	0.50	1
01363	Endrin	72-20-8	0.51	U	0.51	0.51	1
01363	Endrin Aldehyde	7421-93-4	0.84	U	0.84	0.84	1
01363	Endrin Ketone	53494-70-5	0.42	U	0.42	0.42	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.67	U	0.67	0.67	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

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.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.1	2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.1	2
10225	Aroclor 5460	11126-42-4	2.2	U	2.2	7.1	2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.7	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.7	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.7	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.7	2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.7	2
10225	PCB-1254	11097-69-1	28		0.71	3.7	2
10225	PCB-1260	11096-82-5	0.71	U	0.71	3.7	2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.7	2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.7	2

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	8,880		5.21	20.7	1
07914	Boron	7440-42-8	5.09	J	0.921	5.18	1
01650	Calcium	7440-70-2	3,270		6.34	20.7	1
01654	Iron	7439-89-6	13,400		4.87	20.7	1
01656	Lithium	7439-93-2	13.2		0.23	2.1	1
01657	Magnesium	7439-95-4	2,840		2.63	10.4	1
06958	Manganese	7439-96-5	215		0.0807	0.518	1
10145	Phosphorus	7723-14-0	407		0.580	10.4	1
01662	Potassium	7440-09-7	1,770		18.6	51.8	1
01667	Sodium	7440-23-5	66.7	J	38.6	104	1
07968	Strontium	7440-24-6	20.5		0.0642	0.518	1

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

Sample Description: DUP03-SA5C-QC-102510 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124084
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 10:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

DUP03 SDG#: DE004-11FD

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**	
06969	Tin	7440-31-5	2.37	J	1.04	10.4	1
06970	Titanium	7440-32-6	731		0.393	1.04	1
10146	Zirconium	7440-67-7	2.12	J	0.869	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0633	U	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	3.85		0.0633	0.422	2
06126	Barium	7440-39-3	64.9		0.114	0.422	2
06127	Beryllium	7440-41-7	0.340		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.138		0.0380	0.106	2
06131	Chromium	7440-47-3	16.4		0.127	0.422	2
06132	Cobalt	7440-48-4	4.29		0.0211	0.106	2
06133	Copper	7440-50-8	6.44		0.0697	0.422	2
06135	Lead	7439-92-1	3.87		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.652		0.0528	0.106	2
06139	Nickel	7440-02-0	9.86		0.106	0.422	2
06141	Selenium	7782-49-2	0.317	J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0208	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.166		0.0317	0.106	2
06148	Vanadium	7440-62-2	26.3		0.0232	0.106	2
06149	Zinc	7440-66-6	38.2		0.591	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0094	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	1.5		0.86	1.1	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		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.24	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	448		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	7.01		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	7.1		0.50	0.50	1

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

Sample Description: DUP03-SA5C-QC-102510 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124084
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 10:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

DUP03 SDG#: DE004-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/14/2010 05:43	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/22/2010 13:06	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 05:22	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 02:15	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 08:40	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:06	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 17:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:06	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 10:06	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:06	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 17:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 17:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:06	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:06	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:06	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 17:21	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:06	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 17:21	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:06	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:14	David K Beck	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA5C-QC-102510 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124084
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 10:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

DUP03 SDG#: DE004-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:14	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:14	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 20:02	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 20:51	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 12:38	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182102A	11/08/2010 12:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401B	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124085
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:10 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL008 SDG#: DE004-12

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	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	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	39	U	39	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	39	U	39	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	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	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	39	U	39	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
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

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

Sample Description: SL-008-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124085
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:10 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL008 SDG#: DE004-12

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	2,4,5-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	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	2.6		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	4.1		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	1.4	J	0.39	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	Bis(2-Ethylhexyl)phthalate	117-81-7	38		7.1	21	1
10138	Fluoranthene	206-44-0	1.6	J	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
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	1.5	J	0.79	2.0	1
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	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0	1
10401	MCPA	94-74-6	90	U	90	290	1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290	1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	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.						
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 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1

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

Sample Description: SL-008-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124085
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:10 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL008 SDG#: DE004-12

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	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1
01363	Beta BHC	319-85-7	0.14	U	0.14	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0	1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40	1
01363	p,p-DDE	72-55-9	0.078	U	0.078	0.40	1
01363	p,p-DDT	50-29-3	0.090	U	0.090	0.40	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.20	1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40	1
01363	Endrin	72-20-8	0.078	U	0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0	1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1

The TCX 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.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

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	0.61	U	0.61	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

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	25,100		5.70	22.7	1
07914	Boron	7440-42-8	17.9		1.01	5.67	1
01650	Calcium	7440-70-2	54,600		6.95	22.7	1
01654	Iron	7439-89-6	29,700		26.7	113	5

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

Sample Description: SL-008-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124085
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:10 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL008 SDG#: DE004-12

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**	
01656	Lithium	7439-93-2	29.6		0.25	2.3	1
01657	Magnesium	7439-95-4	7,930		2.88	11.3	1
06958	Manganese	7439-96-5	402		0.0884	0.567	1
10145	Phosphorus	7723-14-0	676		0.635	11.3	1
01662	Potassium	7440-09-7	5,790		20.4	56.7	1
01667	Sodium	7440-23-5	122		42.3	113	1
07968	Strontium	7440-24-6	97.2		0.0703	0.567	1
06969	Tin	7440-31-5	2.95	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,350		2.15	5.67	5
10146	Zirconium	7440-67-7	5.28	J	0.952	5.67	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.482		0.0694	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	5.91		0.0694	0.462	2
06126	Barium	7440-39-3	107		0.125	0.462	2
06127	Beryllium	7440-41-7	0.630		0.0185	0.116	2
06128	Cadmium	7440-43-9	0.231		0.0416	0.116	2
06131	Chromium	7440-47-3	32.0		0.139	0.462	2
06132	Cobalt	7440-48-4	9.12		0.0231	0.116	2
06133	Copper	7440-50-8	13.7		0.0763	0.462	2
06135	Lead	7439-92-1	8.96		0.0120	0.231	2
06138	Molybdenum	7439-98-7	0.373		0.0578	0.116	2
06139	Nickel	7440-02-0	16.8		0.116	0.462	2
06141	Selenium	7782-49-2	0.208	J	0.0462	0.462	2
06142	Silver	7440-22-4	0.0312	J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.321		0.0347	0.116	2
06148	Vanadium	7440-62-2	63.0		0.0254	0.116	2
06149	Zinc	7440-66-6	60.9		0.647	3.47	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	2.0		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	10.6	U	10.6	35.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.39	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	454		10.0	10.0	1

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

Sample Description: SL-008-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124085
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:10 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL008 SDG#: DE004-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.15	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture CDM	n.a.	15.2	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	10305SLC026	11/14/2010 06:08	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/22/2010 13:39	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 05:49	John W Perkins	1
06557	Perchlorate in Soil LC/MS/MS	SW-846 6850 1/2007	1	103060030A	11/03/2010 19:11	Richard A Shober	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 03:58	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 08:59	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103060030A	11/03/2010 10:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:09	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 17:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:09	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 17:28	John P Hook	5
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:09	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 17:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 17:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:09	Damary Valentin	1

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

Sample Description: SL-008-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124085
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:10 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL008 SDG#: DE004-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:09	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:09	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 17:24	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:09	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 17:28	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:09	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:17	David K Beck	2
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:17	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:17	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:17	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201A	11/09/2010 20:17	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202A	11/18/2010 21:15	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 12:52	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201A	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202A	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182102A	11/08/2010 12:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401B	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-020-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124086
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:55 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL020 SDG#: DE004-13

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	3,600	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	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	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	Diethylphthalate	84-66-2	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	Dimethylphthalate	131-11-3	18	U	18	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
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	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

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

Sample Description: SL-020-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124086
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:55 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL020 SDG#: DE004-13

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**	
	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	18	U	18	180	1
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
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.3	U	7.3	18	10
10138	Acenaphthylene	208-96-8	3.6	U	3.6	18	10
10138	Anthracene	120-12-7	3.6	U	3.6	18	10
10138	Benzo(a)anthracene	56-55-3	7.3	U	7.3	18	10
10138	Benzo(a)pyrene	50-32-8	7.3	U	7.3	18	10
10138	Benzo(b)fluoranthene	205-99-2	11	J	7.3	18	10
10138	Benzo(g,h,i)perylene	191-24-2	7.3	U	7.3	18	10
10138	Benzo(k)fluoranthene	207-08-9	7.3	U	7.3	18	10
10138	Chrysene	218-01-9	5.9	J	3.6	18	10
10138	Dibenz(a,h)anthracene	53-70-3	7.3	U	7.3	18	10
10138	Fluoranthene	206-44-0	7.3	U	7.3	18	10
10138	Fluorene	86-73-7	7.3	U	7.3	18	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.3	U	7.3	18	10
10138	1-Methylnaphthalene	90-12-0	7.3	U	7.3	18	10
10138	2-Methylnaphthalene	91-57-6	7.3	U	7.3	18	10
10138	Naphthalene	91-20-3	7.3	U	7.3	18	10
10138	N-Nitrosodimethylamine	62-75-9	7.3	U	7.3	18	10
10138	Phenanthrene	85-01-8	7.3	U	7.3	18	10
10138	Pyrene	129-00-0	7.3	U	7.3	18	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	14	U	14	14	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	83	U	83	270	1
10401	MCPP (Mecoprop)	93-65-2	370		82	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	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. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

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

Sample Description: SL-020-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124086
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:55 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL020 SDG#: DE004-13

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	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.16	U	0.16	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	2.7	U	2.7	3.7	1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.22	U	0.22	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.094	U	0.094	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.15	J	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.13	U	0.13	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

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.

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	1.4	J	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	1.6	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.72	J	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	17,200		5.49	21.8	1
07914	Boron	7440-42-8	8.01		0.972	5.46	1
01650	Calcium	7440-70-2	4,490		6.69	21.8	1
01654	Iron	7439-89-6	23,700		5.14	21.8	1
01656	Lithium	7439-93-2	23.2		0.24	2.2	1
01657	Magnesium	7439-95-4	5,250		2.77	10.9	1
06958	Manganese	7439-96-5	340		0.0852	0.546	1
10145	Phosphorus	7723-14-0	422		0.611	10.9	1
01662	Potassium	7440-09-7	3,220		19.7	54.6	1

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

Sample Description: SL-020-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124086
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:55 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL020 SDG#: DE004-13

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**	
01667	Sodium	7440-23-5	94.4	J	40.7	109	1
07968	Strontium	7440-24-6	21.8		0.0677	0.546	1
06969	Tin	7440-31-5	3.10	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,360		2.07	5.46	5
10146	Zirconium	7440-67-7	3.44	J	0.917	5.46	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152	J	0.0642	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	4.12		0.0642	0.428	2
06126	Barium	7440-39-3	102		0.116	0.428	2
06127	Beryllium	7440-41-7	0.515		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.148		0.0385	0.107	2
06131	Chromium	7440-47-3	16.8		0.128	0.428	2
06132	Cobalt	7440-48-4	5.42		0.0214	0.107	2
06133	Copper	7440-50-8	8.83		0.0706	0.428	2
06135	Lead	7439-92-1	6.28		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.462		0.0535	0.107	2
06139	Nickel	7440-02-0	10.4		0.107	0.428	2
06141	Selenium	7782-49-2	0.0973	J	0.0428	0.428	2
06142	Silver	7440-22-4	0.0293	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.264		0.0321	0.107	2
06148	Vanadium	7440-62-2	35.8		0.0235	0.107	2
06149	Zinc	7440-66-6	48.8		0.599	3.21	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0041	J	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	2.5		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	9.8	U	9.8	32.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.24	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	448		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	8.37		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	8.4		0.50	0.50	1

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

Sample Description: SL-020-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124086
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:55 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL020 SDG#: DE004-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/14/2010 06:33	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/21/2010 23:23	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 06:17	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 04:13	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 09:17	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:12	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 17:31	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:12	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 10:12	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:12	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 17:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 17:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:12	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:12	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:12	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 17:31	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:12	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 17:34	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:12	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:20	David K Beck	2

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

Sample Description: SL-020-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124086
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:55 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL020 SDG#: DE004-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:20	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:20	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:20	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201B	11/09/2010 20:33	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202B	11/18/2010 21:39	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 13:06	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201B	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202B	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182102A	11/08/2010 12:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401B	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-018-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124087
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL018 SDG#: DE004-14

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	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	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	Diethylphthalate	84-66-2	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	Dimethylphthalate	131-11-3	19	U	19	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	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	390	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

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

Sample Description: SL-018-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124087
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL018 SDG#: DE004-14

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**	
	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	19	U	19	190	1
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	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	7.7	U	7.7	19	10
10138	Acenaphthylene	208-96-8	3.9	U	3.9	19	10
10138	Anthracene	120-12-7	3.9	U	3.9	19	10
10138	Benzo(a)anthracene	56-55-3	7.7	U	7.7	19	10
10138	Benzo(a)pyrene	50-32-8	7.7	U	7.7	19	10
10138	Benzo(b)fluoranthene	205-99-2	11	J	7.7	19	10
10138	Benzo(g,h,i)perylene	191-24-2	7.7	U	7.7	19	10
10138	Benzo(k)fluoranthene	207-08-9	7.7	U	7.7	19	10
10138	Chrysene	218-01-9	5.3	J	3.9	19	10
10138	Dibenz(a,h)anthracene	53-70-3	7.7	U	7.7	19	10
10138	Fluoranthene	206-44-0	7.7	U	7.7	19	10
10138	Fluorene	86-73-7	7.7	U	7.7	19	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.7	U	7.7	19	10
10138	1-Methylnaphthalene	90-12-0	7.7	U	7.7	19	10
10138	2-Methylnaphthalene	91-57-6	7.7	U	7.7	19	10
10138	Naphthalene	91-20-3	7.7	U	7.7	19	10
10138	N-Nitrosodimethylamine	62-75-9	7.7	U	7.7	19	10
10138	Phenanthrene	85-01-8	7.7	U	7.7	19	10
10138	Pyrene	129-00-0	7.7	U	7.7	19	10
	Reporting limits were raised due to interference from the sample matrix.						
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	0.72	U	0.72	2.0	1
10401	Dicamba	1918-00-9	0.46	U	0.46	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	88	U	88	290	1
10401	MCPP (Mecoprop)	93-65-2	170	J	87	290	1
10401	2,4,5-T	93-76-5	0.095	U	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.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1

Sample Description: SL-018-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124087
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL018 SDG#: DE004-14

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	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	1.7	U	1.7	3.9	1
01363	p,p-DDD	72-54-8	0.10	U	0.10	0.39	1
01363	p,p-DDE	72-55-9	0.14	U	0.14	0.39	1
01363	p,p-DDT	50-29-3	0.17	U	0.17	0.39	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19	1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39	1
01363	Endosulfan I	959-98-8	0.18	U	0.18	0.19	1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.13	U	0.13	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.39	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.053	U	0.053	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.16	U	0.16	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1

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.

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	25,100	5.71	22.7	1
07914	Boron	7440-42-8	16.7	1.01	5.67	1
01650	Calcium	7440-70-2	18,800	6.96	22.7	1
01654	Iron	7439-89-6	31,800	26.7	113	5
01656	Lithium	7439-93-2	32.0	0.25	2.3	1
01657	Magnesium	7439-95-4	8,320	2.88	11.3	1
06958	Manganese	7439-96-5	410	0.0885	0.567	1
10145	Phosphorus	7723-14-0	673	0.635	11.3	1
01662	Potassium	7440-09-7	6,050	20.4	56.7	1
01667	Sodium	7440-23-5	122	42.3	113	1
07968	Strontium	7440-24-6	44.9	0.0704	0.567	1

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

Sample Description: SL-018-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124087
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL018 SDG#: DE004-14

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**	
06969	Tin		7440-31-5	3.22 J	1.13	11.3	1
06970	Titanium		7440-32-6	1,530	2.16	5.67	5
10146	Zirconium		7440-67-7	5.73	0.953	5.67	1
		SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	1.24	0.0694	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	5.72	0.0694	0.463	2
06126	Barium		7440-39-3	94.2	0.125	0.463	2
06127	Beryllium		7440-41-7	0.599	0.0185	0.116	2
06128	Cadmium		7440-43-9	0.180	0.0417	0.116	2
06131	Chromium		7440-47-3	32.7	0.139	0.463	2
06132	Cobalt		7440-48-4	8.18	0.0231	0.116	2
06133	Copper		7440-50-8	12.0	0.0764	0.463	2
06135	Lead		7439-92-1	7.94	0.0120	0.231	2
06138	Molybdenum		7439-98-7	0.315	0.0579	0.116	2
06139	Nickel		7440-02-0	14.2	0.116	0.463	2
06141	Selenium		7782-49-2	0.219 J	0.0463	0.463	2
06142	Silver		7440-22-4	0.0218 J	0.0139	0.116	2
06145	Thallium		7440-28-0	0.292	0.0347	0.116	2
06148	Vanadium		7440-62-2	61.5	0.0255	0.116	2
06149	Zinc		7440-66-6	61.1	0.648	3.47	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0031 U	0.0031	0.109	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)		16984-48-8	2.7	0.93	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	0.38 J	0.23	1.2	1
		ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	448	10.0	10.0	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH		n.a.	8.41	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture CDM		n.a.	13.6	0.50	0.50	1

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

Sample Description: SL-018-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124087
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL018 SDG#: DE004-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/14/2010 06:58	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/21/2010 23:55	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 06:44	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 04:28	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 10:50	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:16	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 17:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:16	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 17:38	John P Hook	5
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:16	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 17:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 17:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:16	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:16	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:16	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 17:47	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:16	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 17:38	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:16	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:24	David K Beck	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124087
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 09:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL018 SDG#: DE004-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:24	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:24	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:24	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201B	11/09/2010 21:18	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202B	11/18/2010 22:51	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10313243201A	11/11/2010 13:27	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201B	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202B	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182102A	11/08/2010 12:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401B	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124088
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL012 SDG#: DE004-15

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	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	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	Diethylphthalate	84-66-2	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	Dimethylphthalate	131-11-3	19	U	19	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

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

Sample Description: SL-012-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124088
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL012 SDG#: DE004-15

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**	
	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	19	U	19	190	1
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	7.7	U	7.7	19	10
10138	Acenaphthylene	208-96-8	3.8	U	3.8	19	10
10138	Anthracene	120-12-7	3.8	U	3.8	19	10
10138	Benzo(a)anthracene	56-55-3	7.7	U	7.7	19	10
10138	Benzo(a)pyrene	50-32-8	7.7	U	7.7	19	10
10138	Benzo(b)fluoranthene	205-99-2	7.7	U	7.7	19	10
10138	Benzo(g,h,i)perylene	191-24-2	7.7	U	7.7	19	10
10138	Benzo(k)fluoranthene	207-08-9	7.7	U	7.7	19	10
10138	Chrysene	218-01-9	3.8	U	3.8	19	10
10138	Dibenz(a,h)anthracene	53-70-3	7.7	U	7.7	19	10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	87	J	69	210	10
10138	Fluoranthene	206-44-0	7.7	U	7.7	19	10
10138	Fluorene	86-73-7	7.7	U	7.7	19	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.7	U	7.7	19	10
10138	1-Methylnaphthalene	90-12-0	7.7	U	7.7	19	10
10138	2-Methylnaphthalene	91-57-6	7.7	U	7.7	19	10
10138	Naphthalene	91-20-3	7.7	U	7.7	19	10
10138	N-Nitrosodimethylamine	62-75-9	7.7	U	7.7	19	10
10138	Phenanthrene	85-01-8	7.7	U	7.7	19	10
10138	Pyrene	129-00-0	7.7	U	7.7	19	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.1	U	5.1	10	1
10401	2,4-DB	94-82-6	0.71	U	0.71	2.0	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0	1
10401	MCPA	94-74-6	87	U	87	290	1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290	1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	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.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1

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

Sample Description: SL-012-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124088
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL012 SDG#: DE004-15

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	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.13	U	0.13	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	2.1	U	2.1	3.9	1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39	1
01363	p,p-DDE	72-55-9	0.12	U	0.12	0.39	1
01363	p,p-DDT	50-29-3	0.16	U	0.16	0.39	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39	1
01363	Endosulfan I	959-98-8	0.070	U	0.070	0.19	1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.22	U	0.22	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.39	1
01363	Endrin Ketone	53494-70-5	0.12	U	0.12	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.049	U	0.049	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.16	U	0.16	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1

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.

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	0.82	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	25,600		5.61	22.3	1
07914	Boron	7440-42-8	17.0		0.992	5.57	1
01650	Calcium	7440-70-2	53,500		6.83	22.3	1
01654	Iron	7439-89-6	29,900		26.3	111	5
01656	Lithium	7439-93-2	31.4		0.25	2.2	1
01657	Magnesium	7439-95-4	8,060		2.83	11.1	1
06958	Manganese	7439-96-5	399		0.0869	0.557	1
10145	Phosphorus	7723-14-0	678		0.624	11.1	1
01662	Potassium	7440-09-7	5,930		20.1	55.7	1
01667	Sodium	7440-23-5	133		41.6	111	1

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

Sample Description: SL-012-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124088
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL012 SDG#: DE004-15

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**	
07968	Strontium	7440-24-6	83.4		0.0691	0.557	1
06969	Tin	7440-31-5	3.25	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,470		2.12	5.57	5
10146	Zirconium	7440-67-7	3.82	J	0.936	5.57	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206	J	0.0682	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	5.63		0.0682	0.455	2
06126	Barium	7440-39-3	102		0.123	0.455	2
06127	Beryllium	7440-41-7	0.620		0.0182	0.114	2
06128	Cadmium	7440-43-9	0.223		0.0409	0.114	2
06131	Chromium	7440-47-3	31.0		0.136	0.455	2
06132	Cobalt	7440-48-4	8.36		0.0227	0.114	2
06133	Copper	7440-50-8	12.6		0.0750	0.455	2
06135	Lead	7439-92-1	8.30		0.0118	0.227	2
06138	Molybdenum	7439-98-7	0.309		0.0568	0.114	2
06139	Nickel	7440-02-0	15.3		0.114	0.455	2
06141	Selenium	7782-49-2	0.229	J	0.0455	0.455	2
06142	Silver	7440-22-4	0.0241	J	0.0136	0.114	2
06145	Thallium	7440-28-0	0.343		0.0341	0.114	2
06148	Vanadium	7440-62-2	60.2		0.0250	0.114	2
06149	Zinc	7440-66-6	57.7		0.637	3.41	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	1.8		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	0.41	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	450		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	8.34		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	12.9		0.50	0.50	1

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

Sample Description: SL-012-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124088
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL012 SDG#: DE004-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/14/2010 07:24	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/22/2010 00:28	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 07:11	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 04:43	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 11:09	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:26	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 17:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:26	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 17:54	John P Hook	5
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:26	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 17:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 17:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:26	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:26	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:26	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 17:51	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:26	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 17:54	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:26	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:27	David K Beck	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124088
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL012 SDG#: DE004-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:27	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:27	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:27	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201B	11/09/2010 21:33	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202B	11/18/2010 23:15	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 13:34	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201B	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202B	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182102A	11/08/2010 12:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401B	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124089
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 08:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL024 SDG#: DE004-16

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	Benzo(g,h,i)perylene	191-24-2	35	J	18	180	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	Butylbenzylphthalate	85-68-7	21	J	18	180	1
04688	Di-n-butylphthalate	84-74-2	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	Diethylphthalate	84-66-2	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	Dimethylphthalate	131-11-3	18	U	18	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	bis(2-Ethylhexyl)phthalate	117-81-7	53	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	Indeno(1,2,3-cd)pyrene	193-39-5	19	J	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

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

Sample Description: SL-024-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124089
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 08:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL024 SDG#: DE004-16

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	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	Di-n-octylphthalate	117-84-0	18	U	18	180	1
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	7.3	U	7.3	18	10
10138	Acenaphthylene	208-96-8	3.7	U	3.7	18	10
10138	Anthracene	120-12-7	3.7	U	3.7	18	10
10138	Benzo(a)anthracene	56-55-3	16	J	7.3	18	10
10138	Benzo(a)pyrene	50-32-8	69		7.3	18	10
10138	Benzo(b)fluoranthene	205-99-2	130		7.3	18	10
10138	Benzo(k)fluoranthene	207-08-9	7.3	U	7.3	18	10
10138	Chrysene	218-01-9	48		3.7	18	10
10138	Dibenz(a,h)anthracene	53-70-3	10	J	7.3	18	10
10138	Fluoranthene	206-44-0	14	J	7.3	18	10
10138	Fluorene	86-73-7	7.3	U	7.3	18	10
10138	1-Methylnaphthalene	90-12-0	7.3	U	7.3	18	10
10138	2-Methylnaphthalene	91-57-6	7.3	U	7.3	18	10
10138	Naphthalene	91-20-3	7.3	U	7.3	18	10
10138	N-Nitrosodimethylamine	62-75-9	7.3	U	7.3	18	10
10138	Phenanthrene	85-01-8	7.3	U	7.3	18	10
10138	Pyrene	129-00-0	28		7.3	18	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9	1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	210	J	84	270	1
10401	MCPP (Mecoprop)	93-65-2	130	U	130	270	1
10401	2,4,5-T	93-76-5	0.11	J	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	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.						
	Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.084	U	0.084	0.18	1

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

Sample Description: SL-024-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124089
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 08:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL024 SDG#: DE004-16

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	Alpha BHC	319-84-6	0.66	U	0.66	0.66	1
01363	Beta BHC	319-85-7	0.12	J	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.047	U	0.047	0.18	1
01363	Chlordane	57-74-9	4.6	U	4.6	4.6	1
01363	p,p-DDD	72-54-8	2.7	U	2.7	2.7	1
01363	p,p-DDE	72-55-9	0.84	U	0.84	0.84	1
01363	p,p-DDT	50-29-3	3.7	U	3.7	3.7	5
01363	Delta BHC	319-86-8	0.14	U	0.14	0.18	1
01363	Dieldrin	60-57-1	0.51	U	0.51	0.51	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.10	U	0.10	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.32	U	0.32	0.37	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.093	U	0.093	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.64	U	0.64	0.64	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

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	1.1	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	7.4		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	7.0		0.36	1.9	1
10225	PCB-1260	11096-82-5	4.1		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	17,400	5.53	22.0	1
07914	Boron	7440-42-8	9.46	0.978	5.49	1
01650	Calcium	7440-70-2	5,430	6.74	22.0	1
01654	Iron	7439-89-6	22,200	5.18	22.0	1
01656	Lithium	7439-93-2	21.6	0.24	2.2	1
01657	Magnesium	7439-95-4	4,720	2.79	11.0	1
06958	Manganese	7439-96-5	285	0.0857	0.549	1
10145	Phosphorus	7723-14-0	382	0.615	11.0	1

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

Sample Description: SL-024-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124089
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 08:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL024 SDG#: DE004-16

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**	
01662	Potassium	7440-09-7	2,850		19.8	54.9	1
01667	Sodium	7440-23-5	91.0	J	41.0	110	1
07968	Strontium	7440-24-6	22.7		0.0681	0.549	1
06969	Tin	7440-31-5	3.47	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,260		2.09	5.49	5
10146	Zirconium	7440-67-7	3.35	J	0.923	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0646	0.215	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	6.63		0.0646	0.431	2
06126	Barium	7440-39-3	97.2		0.116	0.431	2
06127	Beryllium	7440-41-7	0.528		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.288		0.0388	0.108	2
06131	Chromium	7440-47-3	20.3		0.129	0.431	2
06132	Cobalt	7440-48-4	6.06		0.0215	0.108	2
06133	Copper	7440-50-8	10.4		0.0711	0.431	2
06135	Lead	7439-92-1	12.4		0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.394		0.0539	0.108	2
06139	Nickel	7440-02-0	11.7		0.108	0.431	2
06141	Selenium	7782-49-2	0.115	J	0.0431	0.431	2
06142	Silver	7440-22-4	0.0325	J	0.0129	0.108	2
06145	Thallium	7440-28-0	0.244		0.0323	0.108	2
06148	Vanadium	7440-62-2	42.9		0.0237	0.108	2
06149	Zinc	7440-66-6	109		0.603	3.23	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0630	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	2.1		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	1.0	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	431		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	8.35		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	

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

Sample Description: SL-024-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124089
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 08:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL024 SDG#: DE004-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture CDM	n.a.	9.0	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	10305SLC026	11/14/2010 07:49	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/22/2010 01:02	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 07:39	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 04:56	Jamie L Brillhart	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	12/01/2010 00:24	Jamie L Brillhart	5
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 11:28	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:29	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 17:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:29	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 10:29	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:29	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 17:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 17:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:29	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:29	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:29	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 17:58	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:29	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 18:01	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:29	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-024-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124089
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 08:40 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL024 SDG#: DE004-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:36	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:36	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201B	11/09/2010 21:49	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202B	11/18/2010 23:39	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10313243201A	11/11/2010 14:09	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201B	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202B	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182102A	11/08/2010 12:30	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401B	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-004-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124090
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL004 SDG#: DE004-17

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	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	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	Diethylphthalate	84-66-2	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	Dimethylphthalate	131-11-3	19	U	19	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	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	370	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

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

Sample Description: SL-004-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124090
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL004 SDG#: DE004-17

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**	
	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	19	U	19	190	1
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	7.5	U	7.5	19	10
10138	Acenaphthylene	208-96-8	3.7	U	3.7	19	10
10138	Anthracene	120-12-7	3.7	U	3.7	19	10
10138	Benzo(a)anthracene	56-55-3	12	J	7.5	19	10
10138	Benzo(a)pyrene	50-32-8	16	J	7.5	19	10
10138	Benzo(b)fluoranthene	205-99-2	38		7.5	19	10
10138	Benzo(g,h,i)perylene	191-24-2	7.5	U	7.5	19	10
10138	Benzo(k)fluoranthene	207-08-9	9.8	J	7.5	19	10
10138	Chrysene	218-01-9	25		3.7	19	10
10138	Dibenz(a,h)anthracene	53-70-3	7.5	U	7.5	19	10
10138	Fluoranthene	206-44-0	17	J	7.5	19	10
10138	Fluorene	86-73-7	7.5	U	7.5	19	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.5	U	7.5	19	10
10138	1-Methylnaphthalene	90-12-0	7.5	U	7.5	19	10
10138	2-Methylnaphthalene	91-57-6	7.5	U	7.5	19	10
10138	Naphthalene	91-20-3	7.5	U	7.5	19	10
10138	N-Nitrosodimethylamine	62-75-9	7.5	U	7.5	19	10
10138	Phenanthrene	85-01-8	7.5	U	7.5	19	10
10138	Pyrene	129-00-0	17	J	7.5	19	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	85	U	85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.13	U	0.13	0.19	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. Due to interfering peaks on the chromatogram, the values reported for 2,4,5-TP represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

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

Sample Description: SL-004-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124090
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL004 SDG#: DE004-17

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	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.10	U	0.10	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.057	U	0.057	0.19	1
01363	Chlordane	57-74-9	2.9	U	2.9	3.8	1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.38	1
01363	p,p-DDE	72-55-9	0.097	U	0.097	0.38	1
01363	p,p-DDT	50-29-3	0.11	U	0.11	0.38	1
01363	Delta BHC	319-86-8	0.049	U	0.049	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.061	U	0.061	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.21	U	0.21	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.38	1
01363	Endrin Ketone	53494-70-5	0.12	U	0.12	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.20	U	0.20	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

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.

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	0.76	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.61	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	21,500	5.49	21.8	1
07914	Boron	7440-42-8	13.8	0.971	5.45	1
01650	Calcium	7440-70-2	19,400	6.69	21.8	1
01654	Iron	7439-89-6	28,000	5.14	21.8	1
01656	Lithium	7439-93-2	26.9	0.24	2.2	1
01657	Magnesium	7439-95-4	6,910	2.77	10.9	1
06958	Manganese	7439-96-5	356	0.0851	0.545	1
10145	Phosphorus	7723-14-0	586	0.611	10.9	1
01662	Potassium	7440-09-7	4,490	19.6	54.5	1

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

Sample Description: SL-004-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124090
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL004 SDG#: DE004-17

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**	
01667	Sodium	7440-23-5	127		40.7	109	1
07968	Strontium	7440-24-6	47.9		0.0676	0.545	1
06969	Tin	7440-31-5	3.03	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,300		2.07	5.45	5
10146	Zirconium	7440-67-7	5.75		0.916	5.45	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	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	5.14		0.0655	0.436	2
06126	Barium	7440-39-3	91.4		0.118	0.436	2
06127	Beryllium	7440-41-7	0.545		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.186		0.0393	0.109	2
06131	Chromium	7440-47-3	28.6		0.131	0.436	2
06132	Cobalt	7440-48-4	7.21		0.0218	0.109	2
06133	Copper	7440-50-8	10.6		0.0720	0.436	2
06135	Lead	7439-92-1	6.78		0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.515		0.0545	0.109	2
06139	Nickel	7440-02-0	13.4		0.109	0.436	2
06141	Selenium	7782-49-2	0.185	J	0.0436	0.436	2
06142	Silver	7440-22-4	0.0266	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.282		0.0327	0.109	2
06148	Vanadium	7440-62-2	52.9		0.0240	0.109	2
06149	Zinc	7440-66-6	53.2		0.611	3.27	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	3.1		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	17.2	J	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.69	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	456		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	8.31		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	11.0		0.50	0.50	1

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

Sample Description: SL-004-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124090
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL004 SDG#: DE004-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/15/2010 05:05	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/22/2010 01:34	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 08:06	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 05:10	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 11:46	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:33	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 18:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:33	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 10:33	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:33	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 18:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 18:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:33	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:33	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:33	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 18:04	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:33	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 18:08	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:33	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:39	David K Beck	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124090
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:30 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL004 SDG#: DE004-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:39	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:39	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201B	11/09/2010 22:34	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202B	11/19/2010 00:27	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10313243201A	11/11/2010 14:23	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201B	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202B	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10300039404A	10/27/2010 15:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-001-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124091
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL001 SDG#: DE004-18

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	Benzo(b)fluoranthene	205-99-2	18	J	18	180	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	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	540	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
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	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	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	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

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

Sample Description: SL-001-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124091
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL001 SDG#: DE004-18

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	Pyrene	129-00-0	19	J	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	0.73	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	1.3	J	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.1		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	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	2.3		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	Bis(2-Ethylhexyl)phthalate	117-81-7	36		6.5	20	1
10138	Fluoranthene	206-44-0	2.3		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	0.78	J	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	16	J	6.5	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	5.2		0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	83	U	83	270	1
10401	MCPP (Mecoprop)	93-65-2	460		82	270	1
10401	2,4,5-T	93-76-5	0.24	U	0.24	0.24	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	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.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-TP.

Sample Description: SL-001-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124091
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL001 SDG#: DE004-18

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	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.076	U	0.076	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	3.1	U	3.1	3.7	1
01363	p,p-DDD	72-54-8	0.22	U	0.22	0.37	1
01363	p,p-DDE	72-55-9	0.11	U	0.11	0.37	1
01363	p,p-DDT	50-29-3	0.18	U	0.18	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.13	U	0.13	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

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.

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	0.54	U	0.54	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	1.2	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.59	J	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	12,000		5.37	21.4	1
07914	Boron	7440-42-8	2.87	J	0.950	5.34	1
01650	Calcium	7440-70-2	7,010		6.55	21.4	1
01654	Iron	7439-89-6	15,200		5.03	21.4	1
01656	Lithium	7439-93-2	10.9		0.23	2.1	1
01657	Magnesium	7439-95-4	3,440		2.71	10.7	1
06958	Manganese	7439-96-5	214		0.0833	0.534	1
10145	Phosphorus	7723-14-0	461		0.598	10.7	1
01662	Potassium	7440-09-7	2,090		19.2	53.4	1

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

Sample Description: SL-001-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124091
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL001 SDG#: DE004-18

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**	
01667	Sodium	7440-23-5	136		39.8	107	1
07968	Strontium	7440-24-6	42.5		0.0662	0.534	1
06969	Tin	7440-31-5	2.63	J	1.07	10.7	1
06970	Titanium	7440-32-6	814		0.406	1.07	1
10146	Zirconium	7440-67-7	3.85	J	0.897	5.34	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.379		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	3.53		0.0641	0.427	2
06126	Barium	7440-39-3	74.4		0.115	0.427	2
06127	Beryllium	7440-41-7	0.308		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.412		0.0384	0.107	2
06131	Chromium	7440-47-3	21.5		0.128	0.427	2
06132	Cobalt	7440-48-4	4.55		0.0214	0.107	2
06133	Copper	7440-50-8	9.02		0.0705	0.427	2
06135	Lead	7439-92-1	3.86		0.0111	0.214	2
06138	Molybdenum	7439-98-7	1.18		0.0534	0.107	2
06139	Nickel	7440-02-0	9.96		0.107	0.427	2
06141	Selenium	7782-49-2	0.146	J	0.0427	0.427	2
06142	Silver	7440-22-4	0.0206	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.154		0.0320	0.107	2
06148	Vanadium	7440-62-2	36.1		0.0235	0.107	2
06149	Zinc	7440-66-6	121		0.598	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0116	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	1.7		0.87	1.1	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		**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.	434		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH	n.a.	8.42		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	8.2		0.50	0.50	1

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

Sample Description: SL-001-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124091
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL001 SDG#: DE004-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/16/2010 22:49	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/22/2010 14:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/17/2010 03:51	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 05:24	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 12:05	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:36	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/08/2010 14:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:36	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 10:36	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:36	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 18:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 18:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:36	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:36	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:36	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 18:11	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:36	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 18:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:36	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:42	David K Beck	2

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-001-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124091
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL001 SDG#: DE004-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:42	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:42	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:42	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 09:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201B	11/09/2010 22:49	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202B	11/19/2010 00:52	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10313243201A	11/11/2010 14:37	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201B	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202B	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10300039404A	10/27/2010 15:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Sample Description: SL-002-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124092
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL002 SDG#: DE004-19

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
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1

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

Sample Description: SL-002-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124092
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL002 SDG#: DE004-19

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	2,4,5-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	2.8		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	0.88	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	6.8	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	110		6.8	20	1
10138	Fluoranthene	206-44-0	1.0	J	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	0.91	J	0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1
10401	MCPA	94-74-6	86	U	86	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	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.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.12	U	0.12	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1

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

Sample Description: SL-002-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124092
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL002 SDG#: DE004-19

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	Chlordane	57-74-9	2.3	U	2.3	3.9	1
01363	p,p-DDD	72-54-8	0.096	U	0.096	0.39	1
01363	p,p-DDE	72-55-9	0.19	U	0.19	0.39	1
01363	p,p-DDT	50-29-3	0.24	U	0.24	0.39	1
01363	Delta BHC	319-86-8	0.079	U	0.079	0.19	1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39	1
01363	Endosulfan I	959-98-8	0.23	U	0.23	0.23	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.24	U	0.24	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.048	U	0.048	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

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.

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	0.67	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	22,700		5.60	22.3	1
07914	Boron	7440-42-8	15.3		0.990	5.56	1
01650	Calcium	7440-70-2	34,200		6.82	22.3	1
01654	Iron	7439-89-6	29,300		26.2	111	5
01656	Lithium	7439-93-2	28.6		0.24	2.2	1
01657	Magnesium	7439-95-4	7,560		2.83	11.1	1
06958	Manganese	7439-96-5	371		0.0868	0.556	1
10145	Phosphorus	7723-14-0	706		0.623	11.1	1
01662	Potassium	7440-09-7	5,360		20.0	55.6	1
01667	Sodium	7440-23-5	108	J	41.5	111	1
07968	Strontium	7440-24-6	70.3		0.0690	0.556	1
06969	Tin	7440-31-5	3.16	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,360		2.11	5.56	5

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

Sample Description: SL-002-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124092
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL002 SDG#: DE004-19

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**	
10146	Zirconium		7440-67-7	6.52	0.935	5.56	1
		SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.824	0.0674	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	5.14	0.0674	0.450	2
06126	Barium		7440-39-3	101	0.121	0.450	2
06127	Beryllium		7440-41-7	0.597	0.0180	0.112	2
06128	Cadmium		7440-43-9	0.218	0.0405	0.112	2
06131	Chromium		7440-47-3	30.8	0.135	0.450	2
06132	Cobalt		7440-48-4	8.20	0.0225	0.112	2
06133	Copper		7440-50-8	12.2	0.0742	0.450	2
06135	Lead		7439-92-1	8.26	0.0117	0.225	2
06138	Molybdenum		7439-98-7	0.448	0.0562	0.112	2
06139	Nickel		7440-02-0	15.1	0.112	0.450	2
06141	Selenium		7782-49-2	0.217 J	0.0450	0.450	2
06142	Silver		7440-22-4	0.0270 J	0.0135	0.112	2
06145	Thallium		7440-28-0	0.332	0.0337	0.112	2
06148	Vanadium		7440-62-2	59.1	0.0247	0.112	2
06149	Zinc		7440-66-6	58.4	0.629	3.37	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	1.7	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	0.40 J	0.23	1.1	1
		ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	429	10.0	10.0	1
		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.	11.9	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.						

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

Sample Description: SL-002-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124092
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL002 SDG#: DE004-19

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	10305SLC026	11/16/2010 23:15	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/22/2010 14:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 09:56	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 05:39	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 12:24	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:39	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 18:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:39	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 18:18	John P Hook	5
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:39	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 18:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 18:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:39	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:39	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:39	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 18:15	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:39	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 18:18	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:39	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:46	David K Beck	2
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:46	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:46	David K Beck	2

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

Sample Description: SL-002-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124092
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL002 SDG#: DE004-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:46	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 10:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201B	11/09/2010 23:05	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202B	11/19/2010 01:16	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10313243201A	11/11/2010 14:50	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201B	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202B	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10300039404A	10/27/2010 15:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-033-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124093
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL033 SDG#: DE004-20

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	2,100	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
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

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

Sample Description: SL-033-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124093
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL033 SDG#: DE004-20

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	2,4,5-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	0.53	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.93	J	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.72	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	1.6	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.99	J	0.72	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	35		6.4	19	1
10138	Fluoranthene	206-44-0	1.3	J	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	1.0	J	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	8.5	J	6.4	19	1
10138	Phenanthrene	85-01-8	0.77	J	0.72	1.8	1
10138	Pyrene	129-00-0	1.4	J	0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	250	J	82	270	1
10401	MCPP (Mecoprop)	93-65-2	710		81	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.10	J	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	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.

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

Sample Description: SL-033-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124093
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL033 SDG#: DE004-20

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	Chlordane	57-74-9	1.9	U	1.9	3.7	1
01363	p,p-DDD	72-54-8	0.56	U	0.56	0.56	1
01363	p,p-DDE	72-55-9	0.11	U	0.11	0.37	1
01363	p,p-DDT	50-29-3	0.13	U	0.13	0.37	1
01363	Delta BHC	319-86-8	0.058	U	0.058	0.18	1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.11	U	0.11	0.37	1
01363	Endrin	72-20-8	0.071	U	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.37	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.19	U	0.19	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

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.

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	8.0		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	0.82	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.62	J	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	11,000		5.40	21.5	1
07914	Boron	7440-42-8	8.03		0.956	5.37	1
01650	Calcium	7440-70-2	2,210		6.58	21.5	1
01654	Iron	7439-89-6	20,000		5.06	21.5	1
01656	Lithium	7439-93-2	11.5		0.24	2.1	1
01657	Magnesium	7439-95-4	3,150		2.73	10.7	1
06958	Manganese	7439-96-5	296		0.0838	0.537	1
10145	Phosphorus	7723-14-0	272		0.602	10.7	1
01662	Potassium	7440-09-7	2,330		19.3	53.7	1
01667	Sodium	7440-23-5	81.2	J	40.1	107	1
07968	Strontium	7440-24-6	16.6		0.0666	0.537	1
06969	Tin	7440-31-5	3.12	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,220		2.04	5.37	5

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

Sample Description: SL-033-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124093
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL033 SDG#: DE004-20

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**	
10146	Zirconium		7440-67-7	2.92	J	0.902	5.37	1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.105	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	5.25		0.0632	0.421	2
06126	Barium		7440-39-3	55.3		0.114	0.421	2
06127	Beryllium		7440-41-7	0.363		0.0168	0.105	2
06128	Cadmium		7440-43-9	0.0642	J	0.0379	0.105	2
06131	Chromium		7440-47-3	15.6		0.126	0.421	2
06132	Cobalt		7440-48-4	3.36		0.0211	0.105	2
06133	Copper		7440-50-8	6.15		0.0695	0.421	2
06135	Lead		7439-92-1	5.39		0.0110	0.211	2
06138	Molybdenum		7439-98-7	0.216		0.0527	0.105	2
06139	Nickel		7440-02-0	6.27		0.105	0.421	2
06141	Selenium		7782-49-2	0.0650	J	0.0421	0.421	2
06142	Silver		7440-22-4	0.0183	J	0.0126	0.105	2
06145	Thallium		7440-28-0	0.279		0.0316	0.105	2
06148	Vanadium		7440-62-2	29.8		0.0232	0.105	2
06149	Zinc		7440-66-6	44.8		0.590	3.16	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	1.5		0.86	1.1	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil		14797-73-0	9.7	U	9.7	32.2	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC		18540-29-9	0.38	J	0.21	1.1	1
		ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	440		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.	8.02		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM		n.a.	6.9		0.50	0.50	1

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

Sample Description: SL-033-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124093
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL033 SDG#: DE004-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"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	10305SLC026	11/16/2010 23:41	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10305SLE026	11/22/2010 15:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10305SLE026	11/02/2010 08:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLC026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103070028A	11/09/2010 10:23	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103060018A	11/18/2010 06:09	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103040005A	11/05/2010 12:42	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103060018A	11/02/2010 16:55	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103040005A	11/01/2010 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103070028A	11/04/2010 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103025708003	11/07/2010 10:43	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103025708003	11/07/2010 18:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	103025708003	11/07/2010 10:43	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103025708003	11/07/2010 10:43	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	103025708003	11/07/2010 10:43	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103025708003	11/07/2010 18:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	103025708003	11/07/2010 18:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103025708003	11/07/2010 10:43	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	103025708003	11/07/2010 10:43	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103025708003	11/07/2010 10:43	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	103025708003	11/07/2010 18:28	John P Hook	1
06969	Tin	SW-846 6010B	1	103025708003	11/07/2010 10:43	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103025708003	11/07/2010 18:31	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103025708003	11/07/2010 10:43	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06125	Arsenic	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06126	Barium	SW-846 6020	1	103021026001D	11/06/2010 05:49	David K Beck	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124093
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:05 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

SL033 SDG#: DE004-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06128	Cadmium	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06131	Chromium	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06132	Cobalt	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06133	Copper	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06135	Lead	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103021026001C	11/06/2010 05:49	David K Beck	2
06139	Nickel	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06141	Selenium	SW-846 6020	1	103021026001B	11/06/2010 05:49	David K Beck	2
06142	Silver	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06145	Thallium	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06148	Vanadium	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
06149	Zinc	SW-846 6020	1	103021026001A	11/06/2010 05:49	David K Beck	2
00159	Mercury	SW-846 7471A	1	103025711001	11/01/2010 10:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103025708003	10/31/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103021026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103025711001	10/31/2010 23:20	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10312312201B	11/09/2010 23:20	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10312312202B	11/19/2010 01:40	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10313243201A	11/11/2010 15:04	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10312312201B	11/08/2010 13:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10312312202B	11/08/2010 14:05	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10300039404A	10/27/2010 15:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10313243201A	11/09/2010 19:40	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: EB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124094
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 15:25 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

EB-02 SDG#: DE004-21EB

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
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1

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

Sample Description: EB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124094
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 15:25 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

EB-02 SDG#: DE004-21EB

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	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
	Benzoic acid was not recovered in the LCSD. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial analysis of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.0099	U	0.0099	0.050	1
10137	Acenaphthylene	208-96-8	0.0099	U	0.0099	0.050	1
10137	Anthracene	120-12-7	0.0099	U	0.0099	0.050	1
10137	Benzo(a)anthracene	56-55-3	0.011	J	0.0099	0.050	1
10137	Benzo(a)pyrene	50-32-8	0.0099	U	0.0099	0.050	1
10137	Benzo(b)fluoranthene	205-99-2	0.0099	U	0.0099	0.050	1
10137	Benzo(g,h,i)perylene	191-24-2	0.0099	U	0.0099	0.050	1
10137	Benzo(k)fluoranthene	207-08-9	0.012	J	0.0099	0.050	1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	0.99	1
10137	Di-n-butylphthalate	84-74-2	0.16	J	0.050	0.99	1
10137	Chrysene	218-01-9	0.014	J	0.0099	0.050	1
10137	Dibenz(a,h)anthracene	53-70-3	0.0099	U	0.0099	0.050	1
10137	Diethylphthalate	84-66-2	0.082	J	0.050	0.99	1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	0.99	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.18	J	0.050	0.99	1
10137	Fluoranthene	206-44-0	0.0099	U	0.0099	0.050	1
10137	Fluorene	86-73-7	0.0099	U	0.0099	0.050	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0099	U	0.0099	0.050	1
10137	1-Methylnaphthalene	90-12-0	0.0099	U	0.0099	0.050	1
10137	2-Methylnaphthalene	91-57-6	0.0099	U	0.0099	0.050	1
10137	Naphthalene	91-20-3	0.027	J	0.0099	0.050	1
10137	N-Nitrosodimethylamine	62-75-9	0.0099	U	0.0099	0.050	1
10137	Di-n-octylphthalate	117-84-0	0.050	U	0.050	0.99	1
10137	Phenanthrene	85-01-8	0.0099	U	0.0099	0.050	1
10137	Pyrene	129-00-0	0.0099	U	0.0099	0.050	1
	The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.50	1
10407	Dalapon	75-99-0	0.25	U	0.25	1.2	1
10407	2,4-DB	94-82-6	0.30	U	0.30	1.0	1
10407	Dicamba	1918-00-9	0.080	U	0.080	0.30	1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.50	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.50	1
10407	MCPA	94-74-6	300	U	300	1,000	1
10407	MCPP	93-65-2	50	U	50	200	1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.050	1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.050	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0019	U	0.0019	0.0097	1
00177	Alpha BHC	319-84-6	0.0029	U	0.0029	0.0097	1

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

Sample Description: EB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124094
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 15:25 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

EB-02 SDG#: DE004-21EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Beta BHC	319-85-7	0.0028	U	0.0028	0.0097	1
00177	Gamma BHC - Lindane	58-89-9	0.0019	U	0.0019	0.0097	1
00177	Chlordane	57-74-9	0.12	U	0.12	0.48	1
00177	p,p-DDD	72-54-8	0.0049	U	0.0049	0.019	1
00177	p,p-DDE	72-55-9	0.0049	U	0.0049	0.019	1
00177	p,p-DDT	50-29-3	0.0049	U	0.0049	0.019	1
00177	Delta BHC	319-86-8	0.0028	U	0.0028	0.0097	1
00177	Dieldrin	60-57-1	0.0051	U	0.0051	0.019	1
00177	Endosulfan I	959-98-8	0.0042	U	0.0042	0.0097	1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.019	1
00177	Endosulfan Sulfate	1031-07-8	0.0052	U	0.0052	0.019	1
00177	Endrin	72-20-8	0.0053	U	0.0053	0.019	1
00177	Endrin Aldehyde	7421-93-4	0.019	U	0.019	0.097	1
00177	Endrin Ketone	53494-70-5	0.0049	U	0.0049	0.019	1
00177	Heptachlor	76-44-8	0.011		0.0019	0.0097	1
00177	Heptachlor Epoxide	1024-57-3	0.0022	U	0.0022	0.0097	1
00177	Methoxychlor	72-43-5	0.029	U	0.029	0.097	1
00177	Mirex	2385-85-5	0.082	U	0.082	0.24	1
00177	Toxaphene	8001-35-2	0.97	U	0.97	2.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.097	U	0.097	0.48	1
10227	Aroclor 5442	12642-23-8	0.097	U	0.097	0.48	1
10227	Aroclor 5460	11126-42-4	0.097	U	0.097	0.48	1
10227	PCB-1016	12674-11-2	0.097	U	0.097	0.48	1
10227	PCB-1221	11104-28-2	0.097	U	0.097	0.48	1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.48	1
10227	PCB-1242	53469-21-9	0.097	U	0.097	0.48	1
10227	PCB-1248	12672-29-6	0.097	U	0.097	0.48	1
10227	PCB-1254	11097-69-1	0.097	U	0.097	0.48	1
10227	PCB-1260	11096-82-5	0.097	U	0.097	0.48	1
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.48	1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.48	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

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

Sample Description: EB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124094
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 15:25 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

EB-02 SDG#: DE004-21EB

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
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
	EPA 150.1		**Std. Units**		**Std. Units**	**Std. Units**	
00200	pH	n.a.	5.6		0.010	0.010	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
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10301WAB026	11/13/2010 03:39	Ryan P Byrne	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10301WAG026	11/19/2010 15:41	Mark A Clark	1
00813	BNA Water Extraction	SW-846 3510C	1	10301WAB026	10/28/2010 14:00	Timothy J Attenberger	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: EB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124094
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 15:25 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

EB-02 SDG#: DE004-21EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10466	BNA Water Extraction SIM	SW-846 3510C	1	10301WAG026	10/28/2010 22:00	Elaine F Stoltzfus	1
10407	Herb water 8151A Master	SW-846 8151A	1	103010017A	11/01/2010 04:05	Michele D Hamilton	1
00177	OC Pesticides in Water	SW-846 8081A	1	103010005A	11/08/2010 23:51	Lisa A Reinert	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103010006A	11/04/2010 15:34	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103010006A	10/28/2010 16:55	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103010005A	10/28/2010 16:55	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103010017A	10/29/2010 08:30	Kerrie A Freeburn	1
01743	Aluminum	SW-846 6010B	1	103051848002	11/09/2010 15:15	Eric L Eby	1
08014	Boron	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
01750	Calcium	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
01754	Iron	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
01756	Lithium	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
07058	Manganese	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
01762	Potassium	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
01767	Sodium	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
08068	Strontium	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
07069	Tin	SW-846 6010B	1	103051848002	11/09/2010 15:15	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103051848002	11/05/2010 17:33	John P Hook	1
06024	Antimony	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06025	Arsenic	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06026	Barium	SW-846 6020	1	103056050001D	11/08/2010 01:44	David K Beck	1
06027	Beryllium	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06028	Cadmium	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06031	Chromium	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06032	Cobalt	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06033	Copper	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06035	Lead	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06038	Molybdenum	SW-846 6020	1	103056050001C	11/08/2010 01:44	David K Beck	1
06039	Nickel	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06041	Selenium	SW-846 6020	1	103056050001B	11/08/2010 01:44	David K Beck	1
06042	Silver	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06045	Thallium	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06048	Vanadium	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
06049	Zinc	SW-846 6020	1	103056050001A	11/08/2010 01:44	David K Beck	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103051848002	11/01/2010 21:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103056050001	11/01/2010 21:00	Mirit S Shenouda	1
01504	Fluoride	EPA 300.0	1	10305196602A	11/02/2010 02:29	Ashley M Adams	1
06019	Perchlorate	EPA 314.0	1	10307621701A	11/03/2010 13:09	William L Hamaker Jr	1
06467	Hexavalent Chromium (water)	SW-846 7199	1	10300621301A	10/27/2010 10:55	William L Hamaker Jr	1
00200	pH	EPA 150.1	1	10301020001A	10/28/2010 13:30	Michele L Graham	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: FB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124095
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-02 SDG#: DE004-22FB*

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
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1

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

Sample Description: FB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124095
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-02 SDG#: DE004-22FB*

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	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
	Benzoic acid was not recovered in the LCSD. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial analysis of the sample.						
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	0.15	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	0.078	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	0.11	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	0.032	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 are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.49	1
10407	Dalapon	75-99-0	0.25	U	0.25	1.2	1
10407	2,4-DB	94-82-6	0.30	U	0.30	0.98	1
10407	Dicamba	1918-00-9	0.079	U	0.079	0.30	1
10407	Dinoseb	88-85-7	0.098	U	0.098	0.49	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.49	1
10407	MCPA	94-74-6	300	U	300	980	1
10407	MCPP	93-65-2	49	U	49	200	1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.049	1
10407	2,4,5-TP	93-72-1	0.0098	U	0.0098	0.049	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.0098	1
00177	Alpha BHC	319-84-6	0.0030	U	0.0030	0.0098	1

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

Sample Description: FB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124095
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-02 SDG#: DE004-22FB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Beta BHC	319-85-7	0.0029	U	0.0029	0.0098	1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.0098	1
00177	Chlordane	57-74-9	0.12	U	0.12	0.49	1
00177	p,p-DDD	72-54-8	0.0049	U	0.0049	0.020	1
00177	p,p-DDE	72-55-9	0.0049	U	0.0049	0.020	1
00177	p,p-DDT	50-29-3	0.0049	U	0.0049	0.020	1
00177	Delta BHC	319-86-8	0.0029	U	0.0029	0.0098	1
00177	Dieldrin	60-57-1	0.0052	U	0.0052	0.020	1
00177	Endosulfan I	959-98-8	0.0042	U	0.0042	0.0098	1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020	1
00177	Endosulfan Sulfate	1031-07-8	0.0053	U	0.0053	0.020	1
00177	Endrin	72-20-8	0.0054	U	0.0054	0.020	1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.098	1
00177	Endrin Ketone	53494-70-5	0.0049	U	0.0049	0.020	1
00177	Heptachlor	76-44-8	0.0095	J	0.0020	0.0098	1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.0098	1
00177	Methoxychlor	72-43-5	0.029	U	0.029	0.098	1
00177	Mirex	2385-85-5	0.083	U	0.083	0.25	1
00177	Toxaphene	8001-35-2	0.98	U	0.98	2.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49	1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49	1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49	1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49	1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49	1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49	1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49	1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49	1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49	1
10227	PCB-1260	11096-82-5	0.098	U	0.098	0.49	1
10227	PCB-1262	37324-23-5	0.20	U	0.20	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

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

Sample Description: FB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124095
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-02 SDG#: DE004-22FB*

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
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
	EPA 150.1		**Std. Units**	**Std. Units**	**Std. Units**	
00200	pH	n.a.	5.6	0.010	0.010	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
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10301WAB026	11/13/2010 04:04	Ryan P Byrne	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10301WAG026	11/19/2010 16:12	Mark A Clark	1
00813	BNA Water Extraction	SW-846 3510C	1	10301WAB026	10/28/2010 14:00	Timothy J Attenberger	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: FB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124095
LLI Group # 1218260
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:50 by KB

Submitted: 10/27/2010 09:10
Reported: 12/06/2010 16:44

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

FB-02 SDG#: DE004-22FB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10466	BNA Water Extraction SIM	SW-846 3510C	1	10301WAG026	10/28/2010 22:00	Elaine F Stoltzfus	1
10407	Herb water 8151A Master	SW-846 8151A	1	103010017A	11/01/2010 04:32	Michele D Hamilton	1
00177	OC Pesticides in Water	SW-846 8081A	1	103010005A	11/09/2010 00:04	Lisa A Reinert	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103010006A	11/04/2010 15:53	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103010006A	10/28/2010 16:55	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103010005A	10/28/2010 16:55	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103010017A	10/29/2010 08:30	Kerrie A Freeburn	1
01743	Aluminum	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
08014	Boron	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
01750	Calcium	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
01754	Iron	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
01756	Lithium	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
07058	Manganese	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
01762	Potassium	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
01767	Sodium	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
08068	Strontium	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
07069	Tin	SW-846 6010B	1	103051848002	11/09/2010 15:19	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103051848002	11/05/2010 17:37	John P Hook	1
06024	Antimony	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06025	Arsenic	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06026	Barium	SW-846 6020	1	103056050001D	11/08/2010 01:47	David K Beck	1
06027	Beryllium	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06028	Cadmium	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06031	Chromium	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06032	Cobalt	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06033	Copper	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06035	Lead	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06038	Molybdenum	SW-846 6020	1	103056050001C	11/08/2010 01:47	David K Beck	1
06039	Nickel	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06041	Selenium	SW-846 6020	1	103056050001B	11/08/2010 01:47	David K Beck	1
06042	Silver	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06045	Thallium	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06048	Vanadium	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
06049	Zinc	SW-846 6020	1	103056050001A	11/08/2010 01:47	David K Beck	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103051848002	11/01/2010 21:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103056050001	11/01/2010 21:00	Mirit S Shenouda	1
01504	Fluoride	EPA 300.0	1	10305196602A	11/02/2010 03:21	Ashley M Adams	1
06019	Perchlorate	EPA 314.0	1	10307621701A	11/03/2010 13:33	William L Hamaker Jr	1
06467	Hexavalent Chromium (water)	SW-846 7199	1	10300621301A	10/27/2010 10:40	William L Hamaker Jr	1
00200	pH	EPA 150.1	1	10301020001A	10/28/2010 13:30	Michele L Graham	1

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

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: 10301WAB026	Sample number(s): 6124077-6124078,6124094-6124095									
Aniline	1	U	1.	5	ug/l	70	54	49-101	26	30
Benzidine	20	U	20.	60	ug/l	73	60	20-109	19	30
Benzoic acid	6	U	6.	15	ug/l	35	0*	10-69	200*	30
Benzyl alcohol	5	U	5.	15	ug/l	78	73	66-97	7	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	100	95	82-117	5	30
Carbazole	1	U	1.	5	ug/l	93	89	81-114	5	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	90	81	70-123	11	30
4-Chloroaniline	1	U	1.	5	ug/l	57	52	42-124	8	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	89	82	74-124	7	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	84	80	77-108	4	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	82	81	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	104	96	54-132	8	30
2-Chlorophenol	1	U	1.	5	ug/l	88	81	77-108	9	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	86	82-111	6	30
Dibenzofuran	1	U	1.	5	ug/l	88	85	83-108	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	86	80	67-108	7	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	84	80	63-110	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	84	82	65-113	3	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	62	51	49-111	20	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	94	84	80-109	11	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	92	84	72-110	9	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	91	86	70-130	6	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	89	86	78-119	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	87	76	64-120	14	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	88	84	81-115	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	90	87	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	98	92	78-116	6	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	91	81-118	5	30
Hexachlorobutadiene	1	U	1.	5	ug/l	94	84	57-124	11	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	75	75	10-118	0	30
Hexachloroethane	1	U	1.	5	ug/l	84	80	52-113	6	30
Isophorone	1	U	1.	5	ug/l	87	82	74-117	6	30
2-Methylphenol	1	U	1.	5	ug/l	76	72	64-101	5	30
4-Methylphenol	2	U	2.	5	ug/l	66	63	61-103	4	30
2-Nitroaniline	1	U	1.	5	ug/l	90	84	83-116	6	30
3-Nitroaniline	1	U	1.	5	ug/l	87	82	74-113	6	30
4-Nitroaniline	1	U	1.	5	ug/l	71	64	59-100	10	30
Nitrobenzene	1	U	1.	5	ug/l	89	83	75-109	8	30
2-Nitrophenol	1	U	1.	5	ug/l	93	87	86-120	7	30
4-Nitrophenol	10	U	10.	30	ug/l	40	36	16-78	11	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	81	79	69-110	3	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	90	67-136	5	30
Pentachlorophenol	3	U	3.	15	ug/l	99	90	53-110	9	30
Phenol	1	U	1.	5	ug/l	38	36	29-67	7	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	82	71-112	9	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	97	88	79-107	10	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. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	99	92	81-113	8	30
Batch number: 10301WAG026	Sample number(s): 6124077-6124078,6124094-6124095									
Acenaphthene	0.010	U	0.010	0.050	ug/l	99	98	74-109	1	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	91	91	70-110	0	30
Anthracene	0.010	U	0.010	0.050	ug/l	92	91	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	95	95	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	90	90	64-115	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	94	93	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	92	92	68-125	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	82	83	72-122	2	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	86	89	70-130	4	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	102	99	70-130	2	30
Chrysene	0.010	U	0.010	0.050	ug/l	96	95	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	95	95	71-125	0	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	88	89	70-130	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	73	80	70-130	9	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	98	100	70-130	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	94	92	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	91	93	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	94	94	69-124	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	94	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	84	84	75-115	0	30
Naphthalene	0.010	U	0.010	0.050	ug/l	92	92	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	61*	62*	70-130	1	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	85	89	70-130	4	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	93	92	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	97	97	69-118	0	30
Batch number: 10305SLC026	Sample number(s): 6124071-6124076,6124079-6124081,6124083-6124093									
Acenaphthene	17	U	17.	170	ug/kg	92		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	93		75-122		
Aniline	170 U		170.	500	ug/kg	83		10-107		
Anthracene	17	U	17.	170	ug/kg	96		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	100		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	104		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	103		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	103		67-125		
Benzoic acid	170 U		170.	500	ug/kg	100		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	100		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	100		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	95		79-112		
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	68		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	88		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	109		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	104		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	92		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	93		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	84		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	89		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	91		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	84		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	76		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	95		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	97		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	98		75-117		
Fluoranthene	17	U	17.	170	ug/kg	95		78-116		
Fluorene	17	U	17.	170	ug/kg	90		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	98		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	90		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	103		64-119		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	96		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	88		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
Naphthalene	17	U	17.	170	ug/kg	94		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	101		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	94		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	111		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	93		35-106		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Pyrene	17	U	17.	170	ug/kg	102		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	99		78-111		
Batch number: 10305SLE026	Sample number(s): 6124071-6124076,6124079-6124081,6124083-6124093									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	95		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	85		60-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	94		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	88		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	100		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	89		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	100		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	109		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	90		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		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	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	71		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	115		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	106		56-121		
Batch number: 103010017A	Sample number(s): 6124077-6124078,6124094-6124095									
2,4-D	0.16	U	0.16	0.50	ug/l	112	96	45-128	15	30
Dalapon	0.25	U	0.25	1.3	ug/l	76	81	40-100	6	30
2,4-DB	0.30	U	0.30	1.0	ug/l	96	80	41-138	18	30
Dicamba	0.080	U	0.080	0.30	ug/l	108	96	51-144	12	30
Dinoseb	0.10	U	0.10	0.50	ug/l	56	53	23-93	4	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	124	108	72-145	14	30
MCPA	300 U		300.	1,000	ug/l	100	86	69-129	15	30
MCPP	50	U	50.	200	ug/l	104	88	66-132	17	30
2,4,5-T	0.024	J	0.015	0.050	ug/l	108	92	53-141	16	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	112	100	56-135	11	30
Batch number: 103070028A	Sample number(s): 6124071-6124076,6124079-6124081,6124083-6124093									
2,4-D	1.2	U	1.2	3.6	ug/kg	128		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	115		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	100		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	155*		60-141		
MCPA	76	U	76.	250	ug/kg	96		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	88		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	128		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	99		48-138		
Batch number: 103060030A	Sample number(s): 6124085									
Perchlorate in Soil LC/MS/MS	2.1	U	2.1	5.0	ug/kg	95		70-130		
Batch number: 103010005A	Sample number(s): 6124077-6124078,6124094-6124095									
Aldrin	0.0020	U	0.0020	0.010	ug/l	103	104	54-159	1	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	102	102	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	115	115	73-147	0	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	101	101	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	115	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	111	116	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	95	100	53-126	5	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	115	125	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	110	115	76-132	4	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	101	111	68-128	10	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	121	126	59-144	4	30
Endosulfan Sulfate	0.0054	U	0.0054	0.020	ug/l	121	126	71-142	4	30
Endrin	0.0055	U	0.0055	0.020	ug/l	90	95	52-132	5	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	121	126	68-139	4	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	116	126	69-146	9	30
Heptachlor	0.0020	U	0.0020	0.010	ug/l	102	112	57-126	10	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	115	115	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	100	110	52-133	10	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 103010006A	Sample number(s): 6124077-6124078,6124094-6124095									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	64*	74*	75-125	14	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	148*	98	68-119	41*	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	166*	104	68-121	46*	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: 103040005A	Sample number(s): 6124071-6124076,6124079-6124081,6124083-6124093									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	70*	71*	75-125	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		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: 103060018A	Sample number(s): 6124071-6124076,6124079-6124081,6124083-6124093									
Aldrin	0.066	U	0.066	0.17	ug/kg	100		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	112		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	106		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	118		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	194*		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	147*		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	114		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	113		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	133*		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	118		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	113		63-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	119		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	144*		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	119		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	115		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	139*		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	191*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103021026001A	Sample number(s): 6124071-6124076,6124079-6124093									
Antimony	0.0600	U	0.0600	0.200	mg/kg	92		11-208		
Arsenic	0.0600	U	0.0600	0.400	mg/kg	102		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		82-118		
Cadmium	0.0360	U	0.0360	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	110		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	104		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	108		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	106		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	105		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	97		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	100		78-122		
Batch number: 103021026001B	Sample number(s): 6124071-6124076,6124079-6124093									
Selenium	0.0400	U	0.0400	0.400	mg/kg	104		79-122		
Batch number: 103021026001C	Sample number(s): 6124071-6124076,6124079-6124093									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		78-122		
Batch number: 103021026001D	Sample number(s): 6124071-6124076,6124079-6124093									
Barium	0.108	U	0.108	0.400	mg/kg	111		79-121		
Batch number: 103025708003	Sample number(s): 6124071-6124076,6124079-6124093									
Aluminum	11.7	J	5.03	20.0	mg/kg	96		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	99		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	100		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	100		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		81-119		
Phosphorus	1.56	J	0.560	10.0	mg/kg	112		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	107		79-121		
Tin	1.32	J	1.00	10.0	mg/kg	105		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	106		80-120		
Batch number: 103025711001	Sample number(s): 6124071-6124076,6124079-6124093									
Mercury	0.0028	U	0.0028	0.0985	mg/kg	100		88-123		
Batch number: 103051848002	Sample number(s): 6124077-6124078,6124094-6124095									
Aluminum	0.0834	U	0.0834	0.200	mg/l	106	102	90-112	4	20
Boron	0.0138	U	0.0138	0.0500	mg/l	99	99	90-110	0	20
Calcium	0.0702	U	0.0702	0.200	mg/l	103	101	90-112	1	20
Iron	0.0522	U	0.0522	0.200	mg/l	104	103	90-112	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	99	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	100	100	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	103	103	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	106	104	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	101	100	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	102	101	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	103	104	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	102	102	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	101	104	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	103	104	80-120	1	20
Batch number: 103056050001A	Sample number(s): 6124077-6124078,6124094-6124095								
Antimony	0.00030 U	0.00030	0.0010	mg/l	92	102	87-110	10	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	97	110	86-111	12	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	96	104	90-112	8	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	103	114	90-114	10	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	96	107	90-118	11	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	108	80-120	10	20
Copper	0.00038 U	0.00038	0.0020	mg/l	99	112	90-113	12	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	98	107	90-115	8	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	98	111	90-113	13	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	101	108	90-115	7	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	105	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	99	109	80-120	10	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	108	112	80-120	3	20
Batch number: 103056050001B	Sample number(s): 6124077-6124078,6124094-6124095								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	108	85-114	1	20
Batch number: 103056050001C	Sample number(s): 6124077-6124078,6124094-6124095								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	96	107	80-120	11	20
Batch number: 103056050001D	Sample number(s): 6124077-6124078,6124094-6124095								
Barium	0.00038 U	0.00038	0.0020	mg/l	95	104	88-113	9	20
Batch number: 10300621301A	Sample number(s): 6124077-6124078,6124094-6124095								
Hexavalent Chromium (water)	5.0 U	5.0	10.0	ug/l	94		90-110		
Batch number: 10305196602A	Sample number(s): 6124077-6124078,6124094-6124095								
Fluoride	0.080 U	0.080	0.10	mg/l	102	99	90-110	2	20
Batch number: 10307621701A	Sample number(s): 6124077-6124078,6124094-6124095								
Perchlorate	0.70 U	0.70	2.0	ug/l	98		84-115		
Batch number: 10312312201A	Sample number(s): 6124071-6124076,6124079-6124080,6124082-6124085								
Fluoride by IC (solid)	0.80 U	0.80	1.0	mg/kg	108		90-110		
Batch number: 10312312201B	Sample number(s): 6124086-6124093								
Fluoride by IC (solid)	0.80 U	0.80	1.0	mg/kg	108		90-110		
Batch number: 10312312202A	Sample number(s): 6124071-6124076,6124079-6124080,6124082-6124085								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	114		85-115		
Batch number: 10312312202B	Sample number(s): 6124086-6124093								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	114		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10313243201A	Sample number(s): 6124071-6124076,6124079-6124080,6124082-6124093								
Hexavalent Chromium by IC	0.20 U	0.20	1.0	mg/kg	94		80-120		
Batch number: 10300039404A	Sample number(s): 6124090-6124093								
pH					100		95-105		
Batch number: 10301020001A	Sample number(s): 6124077-6124078,6124094-6124095								
pH					99		99-101		
Batch number: 10301039401A	Sample number(s): 6124071-6124076								
pH					100		95-105		
Batch number: 10301039401B	Sample number(s): 6124079,6124082-6124089								
pH					100		95-105		
Batch number: 10312182101B	Sample number(s): 6124071-6124075,6124090-6124093								
Oxidation Reduction Potential					98		98-102		
Batch number: 10312182102A	Sample number(s): 6124076,6124079,6124082-6124089								
Oxidation Reduction Potential					98		98-102		
Batch number: 10309162401B	Sample number(s): 6124071-6124076,6124079-6124093								
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		
Moisture Duplicate 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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10305SLC026	Sample number(s): 6124071-6124076,6124079-6124081,6124083-6124093 UNSPK: 6124079								
Acenaphthene	93	96	75-115	3	30				
Acenaphthylene	96	99	49-126	3	30				
Aniline	70	71	14-114	1	30				
Anthracene	100	100	75-115	0	30				
Benzidine	40	32*	35-141	21	30				
Benzo(a)anthracene	104	104	65-122	0	30				
Benzo(a)pyrene	101	102	57-126	1	30				
Benzo(b)fluoranthene	96	94	59-125	2	30				
Benzo(g,h,i)perylene	107	108	59-127	1	30				
Benzo(k)fluoranthene	99	102	56-132	3	30				
Benzoic acid	51	48	10-173	7	30				
Benzyl alcohol	92	97	55-123	5	30				
4-Bromophenyl-phenylether	100	106	67-129	6	30				
Butylbenzylphthalate	100	102	73-134	2	30				
Di-n-butylphthalate	96	97	67-123	1	30				
Carbazole	99	99	64-120	0	30				
4-Chloro-3-methylphenol	89	92	53-130	4	30				
4-Chloroaniline	68	73	23-95	7	30				
bis(2-Chloroethoxy)methane	93	92	54-117	1	30				
bis(2-Chloroethyl)ether	86	88	60-116	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	82	84	55-142	3	30				
2-Chloronaphthalene	97	98	50-141	1	30				
2-Chlorophenol	91	96	73-121	5	30				
4-Chlorophenyl-phenylether	92	95	64-119	2	30				
Chrysene	100	102	62-128	2	30				
Dibenz(a,h)anthracene	106	106	65-125	0	30				
Dibenzofuran	95	95	71-112	1	30				
1,2-Dichlorobenzene	89	94	66-108	5	30				
1,3-Dichlorobenzene	88	88	63-109	1	30				
1,4-Dichlorobenzene	89	91	53-113	2	30				
3,3'-Dichlorobenzidine	98	99	25-123	1	30				
2,4-Dichlorophenol	96	96	78-117	0	30				
Diethylphthalate	88	92	66-118	5	30				
2,4-Dimethylphenol	95	99	56-130	4	30				
3,5-Dimethylphenol	95	95	70-130	0	30				
Dimethylphthalate	90	94	64-118	4	30				
4,6-Dinitro-2-methylphenol	36	35	10-148	4	30				
2,4-Dinitrophenol	26	24	20-143	8	30				
2,4-Dinitrotoluene	90	91	57-114	1	30				
2,6-Dinitrotoluene	94	97	69-123	3	30				
1,2-Diphenylhydrazine	98	101	71-129	3	30				
bis(2-Ethylhexyl)phthalate	97	99	63-122	2	30				
Fluoranthene	100	98	59-122	2	30				
Fluorene	91	93	60-125	2	30				
Hexachlorobenzene	103	104	61-111	1	30				
Hexachlorobutadiene	102	102	62-120	0	30				
Hexachlorocyclopentadiene	32	33	10-153	5	30				
Hexachloroethane	77	82	57-109	6	30				
Indeno(1,2,3-cd)pyrene	105	107	61-126	2	30				
Isophorone	90	92	51-118	2	30				
1-Methylnaphthalene	96	100	73-112	3	30				
2-Methylnaphthalene	88	91	76-114	3	30				
2-Methylphenol	89	88	47-142	1	30				
4-Methylphenol	92	94	55-126	1	30				
Naphthalene	96	97	72-116	1	30				
2-Nitroaniline	95	102	67-125	7	30				
3-Nitroaniline	93	96	59-122	4	30				
4-Nitroaniline	70	72	52-112	3	30				
Nitrobenzene	93	93	51-114	0	30				
2-Nitrophenol	99	99	74-115	0	30				
4-Nitrophenol	88	90	39-133	1	30				
N-Nitroso-di-n-propylamine	82	82	60-116	0	30				
N-Nitrosodimethylamine	89	90	47-116	1	30				
N-Nitrosodiphenylamine	102	105	86-145	3	30				
Di-n-octylphthalate	102	99	56-126	2	30				
Pentachlorophenol	92	91	17-149	1	30				
Phenanthrene	98	100	65-125	2	30				
Phenol	90	92	58-126	2	30				
Pyrene	101	102	51-151	1	30				
1,2,4-Trichlorobenzene	97	100	72-115	3	30				
2,4,5-Trichlorophenol	97	101	34-139	4	30				
2,4,6-Trichlorophenol	102	104	49-140	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10305SLE026	Sample number(s): 6124071-6124076,6124079-6124081,6124083-6124093 UNSPK: 6124079								
Acenaphthene	93	92	63-105	1	30				
Acenaphthylene	85	86	55-126	1	30				
Anthracene	93	95	46-136	3	30				
Benzo(a)anthracene	98	99	39-144	1	30				
Benzo(a)pyrene	92	93	34-156	1	30				
Benzo(b)fluoranthene	100	102	43-155	2	30				
Benzo(g,h,i)perylene	80	79	33-141	1	30				
Benzo(k)fluoranthene	93	95	42-144	2	30				
Butylbenzylphthalate	117	112	73-140	4	30				
Di-n-butylphthalate	105	105	78-160	0	30				
Chrysene	99	101	29-156	2	30				
Dibenz(a,h)anthracene	83	83	41-130	1	30				
Diethylphthalate	101	101	87-131	0	30				
Dimethylphthalate	99	98	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	110	108	39-167	2	30				
Fluoranthene	94	98	26-166	4	30				
Fluorene	96	97	45-121	1	30				
Indeno(1,2,3-cd)pyrene	83	84	21-143	1	30				
1-Methylnaphthalene	92	94	72-123	1	30				
2-Methylnaphthalene	82	83	28-121	2	30				
Naphthalene	86	85	61-102	0	30				
N-Nitrosodimethylamine	79	75	48-113	4	30				
Di-n-octylphthalate	104	102	40-192	2	30				
Phenanthrene	94	98	12-165	4	30				
Pyrene	105	107	15-153	2	30				
Batch number: 103070028A	Sample number(s): 6124071-6124076,6124079-6124081,6124083-6124093 UNSPK: 6124079								
2,4-D	102	111	28-161	8	35				
Dalapon	0*	0*	12-86	0	50				
2,4-DB	0*	0*	20-170	0	50				
Dicamba	0*	106	33-120	200*	50				
Dinoseb	0*	6	1-44	200*	35				
2,4-DP (Dichlorprop)	137	101	55-141	30	50				
MCPA	3*	15*	31-184	17	50				
MCPP (Mecoprop)	0*	65	16-174	200*	50				
2,4,5-T	101	117	25-132	14	35				
2,4,5-TP	86	69	10-183	22	35				
Batch number: 103060030A	Sample number(s): 6124085 UNSPK: P118541								
Perchlorate in Soil LC/MS/MS	104	100	70-130	4	30				
Batch number: 103040005A	Sample number(s): 6124071-6124076,6124079-6124081,6124083-6124093 UNSPK: 6124079								
PCB-1016	122	123	29-146	1	50				
PCB-1260	114	107	39-149	7	50				
Batch number: 103060018A	Sample number(s): 6124071-6124076,6124079-6124081,6124083-6124093 UNSPK: 6124079								
Aldrin	129*	0*	16-126	200*	50				
Alpha BHC	109	91	10-129	18	50				
Beta BHC	106	103	14-147	3	50				
Gamma BHC - Lindane	118	121	10-140	3	50				
p,p-DDD	110	0*	16-163	200*	50				
p,p-DDE	344*	2316*	18-161	148*	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p,p-DDT	249*	0*	10-176	200*	50				
Delta BHC	78	78	23-140	0	50				
Dieldrin	142	400*	19-154	95*	50				
Endosulfan I	112	0*	16-137	200*	50				
Endosulfan II	92	0*	28-154	200*	50				
Endosulfan Sulfate	113	113	21-160	0	50				
Endrin	136	553*	11-149	121*	50				
Endrin Aldehyde	132	171*	10-148	26	35				
Endrin Ketone	102	106	22-165	5	50				
Heptachlor	142*	176*	13-126	21	50				
Heptachlor Epoxide	0*	0*	13-157	0	50				
Methoxychlor	200*	203*	32-147	1	50				
Batch number: 103021026001A	Sample number(s): 6124071-6124076,6124079-6124093 UNSPK: 6124079 BKG: 6124079								
Antimony	33*	41*	75-125	17	20	0.128 J	0.0588 U	200* (1)	20
Arsenic	110	181*	75-125	23*	20	3.38	3.01	12	20
Beryllium	87	101	75-125	11	20	0.370	0.293	23* (1)	20
Cadmium	98	110	75-125	13	20	0.0976 J	0.0901 J	8 (1)	20
Chromium	99	118	75-125	8	20	15.0	13.6	9	20
Cobalt	93	91	75-125	0	20	4.50	3.77	18	20
Copper	92	122	75-125	19	20	5.93	5.39	10	20
Lead	108	138*	75-125	13	20	3.88	3.14	21*	20
Nickel	93	97	75-125	3	20	8.69	8.15	6	20
Silver	102	102	75-125	3	20	0.0249 J	0.0118 U	200* (1)	20
Thallium	110	111	75-125	2	20	0.172	0.122	35* (1)	20
Vanadium	105	142*	75-125	10	20	25.9	23.1	11	20
Zinc	95	184*	75-125	17	20	38.3	32.0	18	20
Batch number: 103021026001B	Sample number(s): 6124071-6124076,6124079-6124093 UNSPK: 6124079 BKG: 6124079								
Selenium	95	94	75-125	1	20	0.308 J	0.298 J	3 (1)	20
Batch number: 103021026001C	Sample number(s): 6124071-6124076,6124079-6124093 UNSPK: 6124079 BKG: 6124079								
Molybdenum	95	100	75-125	6	20	0.585	0.514	13	20
Batch number: 103021026001D	Sample number(s): 6124071-6124076,6124079-6124093 UNSPK: 6124079 BKG: 6124079								
Barium	122 (2)	285 (2)	75-125	20	20	63.0	53.0	17	20
Batch number: 103025708003	Sample number(s): 6124071-6124076,6124079-6124093 UNSPK: 6124079 BKG: 6124079								
Aluminum	1790 (2)	1352 (2)	75-125	8	20	8,030	9,630	18	20
Boron	102	101	84-115	2	20	4.91 J	5.16	5 (1)	20
Calcium	86 (2)	495 (2)	75-125	34*	20	3,570	4,110	14	20
Iron	1511 (2)	1574 (2)	75-125	0	20	11,700	13,400	14	20
Lithium	105	105	82-114	1	20	12.1	14.6	19	20
Magnesium	369 (2)	377 (2)	75-125	0	20	2,400	2,830	16	20
Manganese	143*	96	75-125	9	20	194	213	9	20
Phosphorus	150*	140*	75-125	2	20	344	410	18	20
Potassium	143*	136*	75-125	3	20	1,480	1,680	13	20
Sodium	107	108	75-125	0	20	64.3 J	76.9 J	18 (1)	20
Strontium	105	119*	75-115	9	20	18.3	19.3	5	20
Tin	99	97	80-110	3	20	2.21 J	2.38 J	7 (1)	20
Titanium	380 (2)	315 (2)	75-125	7	20	632	734	15	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Zirconium	105	105	75-125	1	20	2.91	J	3.50	J	18 (1)	20
Batch number: 103025711001	Sample number(s): 6124071-6124076,6124079-6124093 UNSPK: 6124079 BKG: 6124079										
Mercury	108	101	65-135	7	20	0.0082	J	0.0080	J	3 (1)	20
Batch number: 10300621301A	Sample number(s): 6124077-6124078,6124094-6124095 UNSPK: P123497 BKG: P123497										
Hexavalent Chromium (water)	97		59-135			5.0	U	5.0	U	0 (1)	20
Batch number: 10307621701A	Sample number(s): 6124077-6124078,6124094-6124095 UNSPK: P129681 BKG: P129681										
Perchlorate	91		80-120			0.70	U	0.70	U	0 (1)	15
Batch number: 10312312201A	Sample number(s): 6124071-6124076,6124079-6124080,6124082-6124085 UNSPK: 6124079 BKG: 6124079										
Fluoride by IC (solid)	92		80-120			1.4		1.5		10 (1)	20
Batch number: 10312312201B	Sample number(s): 6124086-6124093 UNSPK: 6124086 BKG: 6124086										
Fluoride by IC (solid)	76*		80-120			2.3		4.2		60* (1)	20
Batch number: 10312312202A	Sample number(s): 6124071-6124076,6124079-6124080,6124082-6124085 UNSPK: 6124079 BKG: 6124079										
Perchlorate in Soil	106		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 10312312202B	Sample number(s): 6124086-6124093 UNSPK: 6124086 BKG: 6124086										
Perchlorate in Soil	104		80-120			9.0	U	12.0	J	200* (1)	15
Batch number: 10313243201A	Sample number(s): 6124071-6124076,6124079-6124080,6124082-6124093 UNSPK: 6124079 BKG: 6124079										
Hexavalent Chromium by IC	81		75-125			1.2		2.7		74* (1)	20
Batch number: 10300039404A	Sample number(s): 6124090-6124093 BKG: P121376										
pH						8.02		7.65		5*	1
Batch number: 10301020001A	Sample number(s): 6124077-6124078,6124094-6124095 BKG: P123630										
pH						6.7		6.7		1	1
Batch number: 10301039401A	Sample number(s): 6124071-6124076 BKG: P125240										
pH						7.37		7.77		5*	1
Batch number: 10301039401B	Sample number(s): 6124079,6124082-6124089 BKG: 6124079										
pH						7.26		7.26		0	1
Batch number: 10312182101B	Sample number(s): 6124071-6124075,6124090-6124093 BKG: P123706										
Oxidation Reduction Potential						431		473		9*	6
Batch number: 10312182102A	Sample number(s): 6124076,6124079,6124082-6124089 BKG: 6124079										
Oxidation Reduction Potential						440		444		1	6
Batch number: 10309162401B	Sample number(s): 6124071-6124076,6124079-6124093 BKG: 6124079										
Moisture CDM						6.8		7.4		9	20
Moisture CDM						6.8		7.4		9	20
Moisture Duplicate CDM						6.8		7.4		9	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

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: TCL SW846 Semivolatiles/Waters
Batch number: 10301WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6124077	41	22	90	83	91	86
6124078	32	21	78	84	91	87
6124094	46	27	84	84	91	87
6124095	40	23	82	84	89	85
Blank	46	27	91	81	86	88
LCS	55	34	94	90	94	90
LCSD	52	32	88	83	87	81
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: Selected SVOAs in water by SIM
Batch number: 10301WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6124077	92	81	84
6124078	91	80	100
6124094	99	83	100
6124095	100	85	94
Blank	94	87	92
LCS	96	87	89
LCSD	97	85	90
Limits:	40-130	45-130	45-135

Analysis Name: TCL SW846 Semivolatiles Soil
Batch number: 10305SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6124071	84	88	88	86	94	89
6124072	85	90	87	86	90	88
6124073	88	93	90	90	96	89
6124074	86	91	88	89	94	86
6124075	88	93	92	87	97	86
6124076	86	90	93	88	95	86
6124079	87	93	91	89	96	87
6124080	84	91	89	89	94	87
6124081	86	90	91	89	95	86
6124083	88	93	89	88	93	87
6124084	88	92	91	90	97	88
6124085	87	91	91	88	94	85
6124086	89	93	85	87	95	86
6124087	85	91	89	86	95	83
6124088	84	87	88	85	95	85
6124089	85	88	92	86	95	85
6124090	93	99	96	89	99	92
6124091	96	97	91	89	94	97
6124092	97	99	97	89	97	99
6124093	93	95	90	85	90	97
Blank	83	87	89	85	89	85

*- 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. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Surrogate Quality Control

LCS	91	95	91	90	91	89
MS	84	91	89	89	94	87
MSD	86	90	91	89	95	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: Selected SVOAs in soil by SIM
Batch number: 10305SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6124071	84	83	83
6124072	87	88	94
6124073	73	79	81
6124074	96	95	99
6124075	82	83	82
6124076	92	89	91
6124079	82	81	88
6124080	92	87	97
6124081	84	86	95
6124083	80	84	89
6124084	96	93	93
6124085	91	88	92
6124086	78	83	90
6124087	74	79	86
6124088	87	92	99
6124089	82	81	85
6124090	83	87	100
6124091	101	105	124
6124092	98	92	93
6124093	88	89	111
Blank	92	94	106
LCS	94	85	93
MS	92	87	97
MSD	84	86	95
Limits:	40-130	45-130	45-135

Analysis Name: OC Pesticides in Water
Batch number: 103010005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6124077	103	112
6124078	103	106
6124094	102	112
6124095	105	104
Blank	102	109
LCS	103	94
LCSD	106	113
Limits:	52-141	40-144

Analysis Name: PCBs & PCTs in Water
Batch number: 103010006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6124077	100	95
6124078	103	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Surrogate Quality Control

6124094	98	85
6124095	97	86
Blank	102	86
LCS	133	110
LCSD	90	79
Limits:	30-150	45-120

Analysis Name: Herb water 8151A Master
Batch number: 103010017A

	2,4-Dichlorophenylacetic acid
6124077	87
6124078	81
6124094	88
6124095	83
Blank	85
LCS	97
LCSD	86
Limits:	35-144

Analysis Name: PCBs & PCTs in Soil
Batch number: 103040005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6124071	92	82
6124072	93	86
6124073	83	69
6124074	91	69
6124075	76	67
6124076	91	87
6124079	94	86
6124080	97	87
6124081	86	86
6124083	79	77
6124084	87	79
6124085	92	91
6124086	94	84
6124087	90	86
6124088	87	83
6124089	90	125
6124090	87	77
6124091	90	79
6124092	87	81
6124093	92	89
Blank	91	90
LCS	88	92
LCSD	89	89
MS	97	87
MSD	86	86
Limits:	53-139	53-142

Analysis Name: OC Pesticides in Solids
Batch number: 103060018A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
6124071	81	117
6124072	74	114
6124073	80	93
6124074	82	109
6124075	90	96
6124076	84	76
6124079	88	97
6124080	95	86
6124081	79	88
6124083	98	74
6124084	82	84
6124085	40*	32
6124086	95	101
6124087	74	80
6124088	76	86
6124089	95	119
6124090	63	56
6124091	77	51
6124092	91	76
6124093	94	105
Blank	84	111
LCS	95	121*
MS	95	86
MSD	79	88
Limits:	50-130	20-120

Analysis Name: Herbicide soils 8151A Master
Batch number: 103070028A

	2,4-Dichlorophenylacetic acid
6124071	110
6124072	83
6124073	78
6124074	103
6124075	92
6124076	89
6124079	115
6124080	93
6124081	87
6124083	90
6124084	94
6124085	89
6124086	80
6124087	110
6124088	89
6124089	79
6124090	97
6124091	64
6124092	83
6124093	69
Blank	91
LCS	101
MS	93

*- 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. Group Number: 1218260
Reported: 12/06/10 at 04:44 PM

Surrogate Quality Control

MSD	87
Limits:	36-156

*- Outside of specification
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13013 1218260 6124071-95

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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
Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	Perchlorate EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
SL-047-SA5C-SS-0.0-0.5	10.25.10	0940	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL-045-SA5C-SS-0.0-0.5	10.25.10	0915	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL027-SA5C-SS-0.0-0.5	10.25.10	1505	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL032-SA5C-SS-0.0-0.5	10.25.10	1348	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL026-SA5C-SS-0.0-0.5	10.25.10	1445	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL038-SA5C-SS-0.0-0.5	10.25.10	1410	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
EB01-SA5C-102510	10.25.10	1605	water	HNO3	1 - 500 ml plastic						√																	
EB01-SA5C-102510	10.25.10	1605	water	none	1 - 500 ml plastic							√	√			√												
FB01-SA5C-102510	10.25.10	1615	water	HNO3	1 - 500 ml plastic						√																	
FB01-SA5C-102510	10.25.10	1615	water	none	1 - 500 ml plastic							√	√			√												

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	10/26/10 1730						Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Received by: (*Signature*)**	**Date/Time**	**Received by: (*Signature*)**	**Date/Time**	**Airbill No.**	
FedEx						1127110 900	

13013 1218260 G124071-95

CHAIN OF CUSTODY RECORD

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

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
Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	Perchlorate EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
EB01-SA5C-102510	10.25.10	1605	water	none	9 - 1L Amber Glass			√	√					√	√		√	√										

Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Laboratory:
	10/26/10 1730					Mary M	Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Airbill No.**	
Fed Ex						10127110 900	

13013 1218260 6124071-95

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
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Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	Perchlorate EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
FB01-SA5C-102510	10.25.10	1615	water	none	9 - 1L Amber Glass			√	√					√	√		√	√										

Relinquished by: (*Signature*)	Date/Time	Relinquished by: (*Signature*)	Date/Time	Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/26/10 1730						Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Received by: (*Signature*)**	**Date/Time**	**Received by: (*Signature*)**	**Date/Time**	**Airbill No.**	
FedEx						1012/110 900	

13013 1218260 6124071-95

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
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Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	Perchlorate EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
SL-041-SA5C-SS-0.0-0.5	10.25.10	0950	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL043-SA5C-SS-0.0-0.5	10.25.10	1130	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
DUP03-SA5C-QC-102510	10.25.10	1050	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
MS041-SA5C-QC-102510	10.25.10	0950	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve, MS/MSD for SL-041-SA5C-SS-0.0-0.5
SL008-SA5C-SS-0.0-0.5	10.26.10	1010	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√	√									SVOC analysis from sleeve
SL020-SA5C-SS-0.0-0.5	10.26.10	1055	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL018-SA5C-SS-0.0-0.5	10.26.10	0940	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve

Relinquished by: (*Signature*)	Date/Time	Relinquished by: (*Signature*)	Date/Time	Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/26/10 1730					10/27/10 900	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Received by: (*Signature*)**	**Date/Time**	**Received by: (*Signature*)**	**Date/Time**	**Airbill No.**	
FedEx							

13013 1218260 6124071-95

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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
Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	Perchlorate EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015B	Other Instructions and Notes
SL012-SA5C-SS-0.0-0.5	10.26.10	1040	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL024-SA5C-SS-0.0-0.5	10.26.10	0840	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL004-SA5C-SS-0.0-0.5	10.26.10	1330	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL001-SA5C-SS-0.0-0.5	10.26.10	1405	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL002-SA5C-SS-0.0-0.5	10.26.10	1350	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL033-SA5C-SS-0.0-0.5	10.26.10	1305	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
EB02-SA5C-102610	10.26.10	1525	water	none	1 - 500 ml plastic							√	√			√												
EB02-SA5C-102610	10.26.10	1525	water	HNO3	1 - 500 ml plastic						√																	
FB02-SA5C-102610	10.26.10	1450	water	HNO3	1 - 500 ml plastic						√																	
FB02-SA5C-102610	10.26.10	1450	water	none	1 - 500 ml plastic							√	√			√												

Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Laboratory:
	10/26/10 1730						Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Airbill No.**	
FedEx						10/27/10 900	

13013 1218260 6124071-95

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs-EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	Perchlorate EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
EB02-SA5C-102610	10.26.10	1525	water	none	9 - 1L Amber Glass			√	√					√	√		√	√										

Relinquished by: (*Signature*)	Date/Time	Relinquished by: (*Signature*)	Date/Time	Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/26/10 1730						Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Received by: (*Signature*)**	**Date/Time**	**Received by: (*Signature*)**	**Date/Time**	**Airbill No.**	
						10/27/10 900	

13013 1218260 6124071-95

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	Perchlorate EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
FB02-SA5C-102610	10.26.10	1450	water	none	9 - 1L Amber Glass			√	√					√	√		√	√										

Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Laboratory:
	10/26/10 1730						Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Airbill No.**	
Fed Ex						10/27/10 900	

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ 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

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

Inorganic Qualifiers

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

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Analysis Report

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: 10/28/2010
Group Number: 1218506
SDG: DE005
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-073-SA5C-SS-0.0-0.5 Grab Soil	6125238
SL-142-SA5C-SS-0.0-0.5 Grab Soil	6125239
SL-114-SA5C-SS-0.0-0.5 Grab Soil	6125240
EB03-SA5C-102710 Grab Water	6125241
FB03-SA5C-102710 Grab Water	6125242

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

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

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Andrea J. Covey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125238
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL073 SDG#: DE005-01

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	890	U	890	2,700	1
04688	Benzidine	92-87-5	6,200	U	6,200	18,000	1
04688	Benzoic acid	65-85-0	890	U	890	2,700	1
04688	Benzyl alcohol	100-51-6	890	U	890	2,700	1
04688	4-Bromophenyl-phenylether	101-55-3	89	U	89	890	1
04688	Butylbenzylphthalate	85-68-7	89	U	89	890	1
04688	Di-n-butylphthalate	84-74-2	89	U	89	890	1
04688	Carbazole	86-74-8	89	U	89	890	1
04688	4-Chloro-3-methylphenol	59-50-7	180	U	180	890	1
04688	4-Chloroaniline	106-47-8	360	U	360	890	1
04688	bis(2-Chloroethoxy)methane	111-91-1	89	U	89	890	1
04688	bis(2-Chloroethyl)ether	111-44-4	89	U	89	890	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	89	U	89	890	1
04688	2-Chloronaphthalene	91-58-7	89	U	89	890	1
04688	2-Chlorophenol	95-57-8	89	U	89	890	1
04688	4-Chlorophenyl-phenylether	7005-72-3	180	U	180	890	1
04688	Dibenzofuran	132-64-9	89	U	89	890	1
04688	1,2-Dichlorobenzene	95-50-1	89	U	89	890	1
04688	1,3-Dichlorobenzene	541-73-1	89	U	89	890	1
04688	1,4-Dichlorobenzene	106-46-7	89	U	89	890	1
04688	3,3'-Dichlorobenzidine	91-94-1	530	U	530	1,800	1
04688	2,4-Dichlorophenol	120-83-2	89	U	89	890	1
04688	Diethylphthalate	84-66-2	89	U	89	890	1
04688	2,4-Dimethylphenol	105-67-9	180	U	180	890	1
04688	3,5-Dimethylphenol	108-68-9	180	U	180	890	1
04688	Dimethylphthalate	131-11-3	89	U	89	890	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	890	U	890	2,700	1
04688	2,4-Dinitrophenol	51-28-5	3,600	U	3,600	11,000	1
04688	2,4-Dinitrotoluene	121-14-2	180	U	180	890	1
04688	2,6-Dinitrotoluene	606-20-2	89	U	89	890	1
04688	1,2-Diphenylhydrazine	122-66-7	89	U	89	890	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	110	J	89	1,800	1
04688	Hexachlorobenzene	118-74-1	89	U	89	890	1
04688	Hexachlorobutadiene	87-68-3	360	U	360	890	1
04688	Hexachlorocyclopentadiene	77-47-4	890	U	890	2,700	1
04688	Hexachloroethane	67-72-1	89	U	89	890	1
04688	Isophorone	78-59-1	89	U	89	890	1
04688	2-Methylphenol	95-48-7	180	U	180	890	1
04688	4-Methylphenol	106-44-5	180	U	180	890	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	89	U	89	890	1
04688	3-Nitroaniline	99-09-2	180	U	180	890	1
04688	4-Nitroaniline	100-01-6	360	U	360	890	1
04688	Nitrobenzene	98-95-3	89	U	89	890	1
04688	2-Nitrophenol	88-75-5	89	U	89	890	1
04688	4-Nitrophenol	100-02-7	890	U	890	2,700	1
04688	N-Nitroso-di-n-propylamine	621-64-7	89	U	89	890	1
04688	N-Nitrosodiphenylamine	86-30-6	89	U	89	890	1

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

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125238
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL073 SDG#: DE005-01

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**	
	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	89	U	89	890	1
04688	Pentachlorophenol	87-86-5	890	U	890	2,700	1
04688	Phenol	108-95-2	89	U	89	890	1
04688	1,2,4-Trichlorobenzene	120-82-1	89	U	89	890	1
04688	2,4,5-Trichlorophenol	95-95-4	180	U	180	890	1
04688	2,4,6-Trichlorophenol	88-06-2	180	U	180	890	1
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.1	U	7.1	18	10
10138	Acenaphthylene	208-96-8	3.6	U	3.6	18	10
10138	Anthracene	120-12-7	3.6	U	3.6	18	10
10138	Benzo(a)anthracene	56-55-3	7.1	U	7.1	18	10
10138	Benzo(a)pyrene	50-32-8	7.1	U	7.1	18	10
10138	Benzo(b)fluoranthene	205-99-2	13	J	7.1	18	10
10138	Benzo(g,h,i)perylene	191-24-2	16	J	7.1	18	10
10138	Benzo(k)fluoranthene	207-08-9	7.1	U	7.1	18	10
10138	Chrysene	218-01-9	23		3.6	18	10
10138	Dibenz(a,h)anthracene	53-70-3	7.1	U	7.1	18	10
10138	Fluoranthene	206-44-0	7.7	J	7.1	18	10
10138	Fluorene	86-73-7	7.1	U	7.1	18	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.1	U	7.1	18	10
10138	1-Methylnaphthalene	90-12-0	7.1	U	7.1	18	10
10138	2-Methylnaphthalene	91-57-6	7.1	U	7.1	18	10
10138	Naphthalene	91-20-3	7.1	U	7.1	18	10
10138	N-Nitrosodimethylamine	62-75-9	7.1	U	7.1	18	10
10138	Phenanthrene	85-01-8	7.1	U	7.1	18	10
10138	Pyrene	129-00-0	9.7	J	7.1	18	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	4.2		1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	23		0.66	1.8	1
10401	Dicamba	1918-00-9	1.2	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.98	U	0.98	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	730	U	730	730	1
10401	MCPP (Mecoprop)	93-65-2	960		80	270	1
10401	2,4,5-T	93-76-5	0.19	U	0.19	0.19	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	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. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the						

Sample Description: **SL-073-SA5C-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125238
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL073 SDG#: DE005-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA, 2,4,5-TP and dinoseb.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.35	U	0.35	0.89	5
01363	Alpha BHC	319-84-6	0.36	J	0.18	0.89	5
01363	Beta BHC	319-85-7	0.37	J	0.32	0.89	5
01363	Gamma BHC - Lindane	58-89-9	0.18	U	0.18	0.89	5
01363	Chlordane	57-74-9	15	U	15	18	5
01363	p,p-DDD	72-54-8	1.1	U	1.1	1.8	5
01363	p,p-DDE	72-55-9	5.5	U	5.5	5.5	5
01363	p,p-DDT	50-29-3	24	U	24	24	25
01363	Delta BHC	319-86-8	0.19	U	0.19	0.89	5
01363	Dieldrin	60-57-1	0.35	U	0.35	1.8	5
01363	Endosulfan I	959-98-8	0.24	U	0.24	0.89	5
01363	Endosulfan II	33213-65-9	0.47	U	0.47	1.8	5
01363	Endosulfan Sulfate	1031-07-8	0.35	U	0.35	1.8	5
01363	Endrin	72-20-8	0.35	U	0.35	1.8	5
01363	Endrin Aldehyde	7421-93-4	2.6	U	2.6	2.6	5
01363	Endrin Ketone	53494-70-5	0.35	U	0.35	1.8	5
01363	Heptachlor	76-44-8	0.32	U	0.32	0.89	5
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.89	5
01363	Methoxychlor	72-43-5	1.8	U	1.8	8.9	5
01363	Mirex	2385-85-5	1.2	U	1.2	1.8	5
01363	Toxaphene	8001-35-2	12	U	12	35	5
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample extract. 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. The reporting limits were raised accordingly.						
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	5.3		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	0.56	U	0.56	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	4.2		0.35	1.8	1
10225	PCB-1260	11096-82-5	1.5	J	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**	

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

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125238
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL073 SDG#: DE005-01

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**	
01643	Aluminum	7429-90-5	14,100		5.12	20.4	1
07914	Boron	7440-42-8	1.52	J	0.907	5.09	1
01650	Calcium	7440-70-2	3,130		6.24	20.4	1
01654	Iron	7439-89-6	19,900		4.80	20.4	1
01656	Lithium	7439-93-2	22.7		0.22	2.0	1
01657	Magnesium	7439-95-4	5,080		2.59	10.2	1
06958	Manganese	7439-96-5	300		0.0794	0.509	1
10145	Phosphorus	7723-14-0	542		0.570	10.2	1
01662	Potassium	7440-09-7	4,270		18.3	50.9	1
01667	Sodium	7440-23-5	89.4	J	38.0	102	1
07968	Strontium	7440-24-6	16.4		0.0632	0.509	1
06969	Tin	7440-31-5	2.21	J	1.02	10.2	1
06970	Titanium	7440-32-6	1,380		2.03	5.35	5
10146	Zirconium	7440-67-7	2.77	J	0.856	5.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182	J	0.0623	0.208	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	3.47		0.0623	0.415	2
06126	Barium	7440-39-3	93.4		0.112	0.415	2
06127	Beryllium	7440-41-7	0.420		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.217		0.0374	0.104	2
06131	Chromium	7440-47-3	16.1		0.125	0.415	2
06132	Cobalt	7440-48-4	4.94		0.0208	0.104	2
06133	Copper	7440-50-8	8.00		0.0685	0.415	2
06135	Lead	7439-92-1	11.1		0.0108	0.208	2
06138	Molybdenum	7439-98-7	0.466		0.0519	0.104	2
06139	Nickel	7440-02-0	10.8		0.104	0.415	2
06141	Selenium	7782-49-2	0.145	J	0.0415	0.415	2
06142	Silver	7440-22-4	0.0237	J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.253		0.0312	0.104	2
06148	Vanadium	7440-62-2	31.9		0.0228	0.104	2
06149	Zinc	7440-66-6	88.9		0.581	3.12	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.118		0.0029	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	0.93	J	0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.44	J	0.21	1.1	1

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

Sample Description: **SL-073-SA5C-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125238
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL073 SDG#: DE005-01

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**	
01821	Oxidation Reduction Potential	n.a.	483	10.0	10.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH	n.a.	6.94	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture CDM	n.a.	6.5	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	10305SLD026	11/13/2010 23:25	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/21/2010 22:11	Timothy J Trees	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLD026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103090019A	11/16/2010 11:58	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103090008A	12/02/2010 22:00	Jamie L Brillhart	5
01363	OC Pesticides in Solids	SW-846 8081A	1	103090008A	12/02/2010 22:15	Jamie L Brillhart	25
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 18:06	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103090008A	11/06/2010 12:10	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103090019A	11/06/2010 05:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1

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

Sample Description: **SL-073-SA5C-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125238
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL073 SDG#: DE005-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010 05:20	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103055708003	11/08/2010 23:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06125	Arsenic	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06126	Barium	SW-846 6020	1	103051026002D	11/06/2010 02:43	David K Beck	2
06127	Beryllium	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06131	Chromium	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06132	Cobalt	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06133	Copper	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06135	Lead	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103051026002C	11/06/2010 02:43	David K Beck	2
06139	Nickel	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06141	Selenium	SW-846 6020	1	103051026002B	11/06/2010 02:43	David K Beck	2
06142	Silver	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06145	Thallium	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06148	Vanadium	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
06149	Zinc	SW-846 6020	1	103051026002A	11/06/2010 02:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	103055711003	11/02/2010 06:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103055708003	11/01/2010 10:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103135708001	11/09/2010 12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103051026002	11/05/2010 15:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103055711003	11/01/2010 11:55	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 20:10	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201A	11/19/2010 15:02	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10315243201A	11/12/2010 09:39	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201A	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401A	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162402B	11/04/2010 09:33	William C Schwebel	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-142-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125239
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL142 SDG#: DE005-02

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	bis(2-Ethylhexyl)phthalate	117-81-7	42	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

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

Sample Description: SL-142-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125239
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL142 SDG#: DE005-02

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	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	0.90	J	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.94	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	1.2	J	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	1.9		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	Fluoranthene	206-44-0	2.6		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	0.83	J	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	2.4		0.76	1.9	1
10138	Pyrene	129-00-0	2.9		0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.2	J	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.9	U	1.9	1.9	1
10401	MCPA	94-74-6	490		86	280	1
10401	MCPP (Mecoprop)	93-65-2	170	J	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	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.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

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

Sample Description: **SL-142-SA5C-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125239
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL142 SDG#: DE005-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
compounds were affected: 2,4-DP							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.050	U	0.050	0.19	1
01363	Beta BHC	319-85-7	0.10	J	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	7.3	U	7.3	7.3	1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39	1
01363	p,p-DDE	72-55-9	0.40	U	0.40	0.40	1
01363	p,p-DDT	50-29-3	1.6	U	1.6	1.6	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.58	U	0.58	0.58	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.36	U	0.36	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.58	U	0.58	0.58	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1
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 matrix, the surrogate standard recovery is above the range of specifications.							
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	6.2		0.37	1.9	1
10225	PCB-1260	11096-82-5	4.0		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	19,700		5.49	21.8	1
07914	Boron	7440-42-8	7.06		0.971	5.46	1
01650	Calcium	7440-70-2	12,600		6.69	21.8	1
01654	Iron	7439-89-6	24,800		5.14	21.8	1

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

Sample Description: **SL-142-SA5C-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125239
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL142 SDG#: DE005-02

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**	
01656	Lithium	7439-93-2	25.5		0.24	2.2	1
01657	Magnesium	7439-95-4	5,330		2.77	10.9	1
06958	Manganese	7439-96-5	230		0.0851	0.546	1
10145	Phosphorus	7723-14-0	196		0.611	10.9	1
01662	Potassium	7440-09-7	2,390		19.6	54.6	1
01667	Sodium	7440-23-5	87.8	J	40.7	109	1
07968	Strontium	7440-24-6	28.0		0.0677	0.546	1
06969	Tin	7440-31-5	2.55	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,290		2.07	5.46	5
10146	Zirconium	7440-67-7	3.98	J	0.917	5.46	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0879	J	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	8.60		0.0661	0.441	2
06126	Barium	7440-39-3	102		0.119	0.441	2
06127	Beryllium	7440-41-7	0.572		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.198		0.0397	0.110	2
06131	Chromium	7440-47-3	27.3		0.132	0.441	2
06132	Cobalt	7440-48-4	7.52		0.0220	0.110	2
06133	Copper	7440-50-8	11.5		0.0727	0.441	2
06135	Lead	7439-92-1	7.10		0.0115	0.220	2
06138	Molybdenum	7439-98-7	0.327		0.0551	0.110	2
06139	Nickel	7440-02-0	15.3		0.110	0.441	2
06141	Selenium	7782-49-2	0.115	J	0.0441	0.441	2
06142	Silver	7440-22-4	0.0738	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.208		0.0331	0.110	2
06148	Vanadium	7440-62-2	44.0		0.0242	0.110	2
06149	Zinc	7440-66-6	64.9		0.617	3.31	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	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	1.7		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	0.32	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	439		10.0	10.0	1

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

Sample Description: **SL-142-SA5C-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125239
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL142 SDG#: DE005-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH	n.a.	6.30	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture CDM	n.a.	11.9	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	10305SLD026	11/14/2010 00:40	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/22/2010 10:23	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLD026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103090019A	11/09/2010 13:08	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103090008A	12/02/2010 22:30	Jamie L Brillhart	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 18:25	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103090008A	11/06/2010 12:10	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103090019A	11/06/2010 05:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
07914	Boron	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
01650	Calcium	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
01654	Iron	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
01656	Lithium	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
06958	Manganese	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
01662	Potassium	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
01667	Sodium	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-142-SA5C-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125239
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL142 SDG#: DE005-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
06969	Tin	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
06970	Titanium	SW-846 6010B	1	103135708001	11/11/2010 05:23	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103055708003	11/07/2010 20:05	John P Hook	1
06124	Antimony	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06125	Arsenic	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06126	Barium	SW-846 6020	1	103051026002D	11/06/2010 03:02	David K Beck	2
06127	Beryllium	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06128	Cadmium	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06131	Chromium	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06133	Copper	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06135	Lead	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103051026002C	11/06/2010 03:02	David K Beck	2
06139	Nickel	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06141	Selenium	SW-846 6020	1	103051026002B	11/06/2010 03:02	David K Beck	2
06142	Silver	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06145	Thallium	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
06149	Zinc	SW-846 6020	1	103051026002A	11/06/2010 03:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	103055711003	11/02/2010 06:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103055708003	11/01/2010 10:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103135708001	11/09/2010 12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103051026002	11/05/2010 15:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103055711003	11/01/2010 11:55	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 20:25	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201A	11/19/2010 16:14	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 09:46	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201A	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401A	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162402B	11/04/2010 09:33	William C Schwebel	1

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

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125240
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL114 SDG#: DE005-03

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	970	U	970	2,900	1
04688	Benzidine	92-87-5	6,800	U	6,800	19,000	1
04688	Benzo(b)fluoranthene	205-99-2	130	J	97	970	1
04688	Benzo(g,h,i)perylene	191-24-2	110	J	97	970	1
04688	Benzoic acid	65-85-0	970	U	970	2,900	1
04688	Benzyl alcohol	100-51-6	970	U	970	2,900	1
04688	4-Bromophenyl-phenylether	101-55-3	97	U	97	970	1
04688	Butylbenzylphthalate	85-68-7	280	J	97	970	1
04688	Di-n-butylphthalate	84-74-2	97	U	97	970	1
04688	Carbazole	86-74-8	97	U	97	970	1
04688	4-Chloro-3-methylphenol	59-50-7	190	U	190	970	1
04688	4-Chloroaniline	106-47-8	390	U	390	970	1
04688	bis(2-Chloroethoxy)methane	111-91-1	97	U	97	970	1
04688	bis(2-Chloroethyl)ether	111-44-4	97	U	97	970	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	97	U	97	970	1
04688	2-Chloronaphthalene	91-58-7	97	U	97	970	1
04688	2-Chlorophenol	95-57-8	97	U	97	970	1
04688	4-Chlorophenyl-phenylether	7005-72-3	190	U	190	970	1
04688	Chrysene	218-01-9	120	J	97	970	1
04688	Dibenzofuran	132-64-9	97	U	97	970	1
04688	1,2-Dichlorobenzene	95-50-1	97	U	97	970	1
04688	1,3-Dichlorobenzene	541-73-1	97	U	97	970	1
04688	1,4-Dichlorobenzene	106-46-7	97	U	97	970	1
04688	3,3'-Dichlorobenzidine	91-94-1	580	U	580	1,900	1
04688	2,4-Dichlorophenol	120-83-2	97	U	97	970	1
04688	Diethylphthalate	84-66-2	97	U	97	970	1
04688	2,4-Dimethylphenol	105-67-9	190	U	190	970	1
04688	3,5-Dimethylphenol	108-68-9	190	U	190	970	1
04688	Dimethylphthalate	131-11-3	97	U	97	970	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	970	U	970	2,900	1
04688	2,4-Dinitrophenol	51-28-5	3,900	U	3,900	12,000	1
04688	2,4-Dinitrotoluene	121-14-2	190	U	190	970	1
04688	2,6-Dinitrotoluene	606-20-2	97	U	97	970	1
04688	1,2-Diphenylhydrazine	122-66-7	97	U	97	970	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	300	J	97	1,900	1
04688	Fluoranthene	206-44-0	160	J	97	970	1
04688	Hexachlorobenzene	118-74-1	97	U	97	970	1
04688	Hexachlorobutadiene	87-68-3	390	U	390	970	1
04688	Hexachlorocyclopentadiene	77-47-4	970	U	970	2,900	1
04688	Hexachloroethane	67-72-1	97	U	97	970	1
04688	Isophorone	78-59-1	97	U	97	970	1
04688	2-Methylphenol	95-48-7	190	U	190	970	1
04688	4-Methylphenol	106-44-5	190	U	190	970	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	97	U	97	970	1
04688	3-Nitroaniline	99-09-2	190	U	190	970	1
04688	4-Nitroaniline	100-01-6	390	U	390	970	1
04688	Nitrobenzene	98-95-3	97	U	97	970	1

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

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125240
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL114 SDG#: DE005-03

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	2-Nitrophenol	88-75-5	97	U	97	970	1
04688	4-Nitrophenol	100-02-7	970	U	970	2,900	1
04688	N-Nitroso-di-n-propylamine	621-64-7	97	U	97	970	1
04688	N-Nitrosodiphenylamine	86-30-6	97	U	97	970	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	97	U	97	970	1
04688	Pentachlorophenol	87-86-5	970	U	970	2,900	1
04688	Phenanthrene	85-01-8	100	J	97	970	1
04688	Phenol	108-95-2	97	U	97	970	1
04688	1,2,4-Trichlorobenzene	120-82-1	97	U	97	970	1
04688	2,4,5-Trichlorophenol	95-95-4	190	U	190	970	1
04688	2,4,6-Trichlorophenol	88-06-2	190	U	190	970	1
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	12	J	7.8	19	10
10138	Acenaphthylene	208-96-8	3.9	U	3.9	19	10
10138	Anthracene	120-12-7	13	J	3.9	19	10
10138	Benzo(a)anthracene	56-55-3	50		7.8	19	10
10138	Benzo(a)pyrene	50-32-8	47		7.8	19	10
10138	Benzo(k)fluoranthene	207-08-9	33		7.8	19	10
10138	Dibenz(a,h)anthracene	53-70-3	9.1	J	7.8	19	10
10138	Fluorene	86-73-7	7.8	U	7.8	19	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	22		7.8	19	10
10138	1-Methylnaphthalene	90-12-0	7.8	U	7.8	19	10
10138	2-Methylnaphthalene	91-57-6	7.8	U	7.8	19	10
10138	Naphthalene	91-20-3	7.8	U	7.8	19	10
10138	N-Nitrosodimethylamine	62-75-9	7.8	U	7.8	19	10
10138	Pyrene	129-00-0	140		7.8	19	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.1	U	2.1	2.1	1
10401	Dalapon	75-99-0	5.1	U	5.1	10	1
10401	2,4-DB	94-82-6	6.3	U	6.3	6.3	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	490		89	290	1
10401	MCPP (Mecoprop)	93-65-2	850		87	290	1
10401	2,4,5-T	93-76-5	0.58		0.096	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. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the						

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

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125240
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL114 SDG#: DE005-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-D and 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.99	U	0.99	0.99	5
01363	Alpha BHC	319-84-6	1.4	U	1.4	1.4	5
01363	Beta BHC	319-85-7	0.35	U	0.35	0.97	5
01363	Gamma BHC - Lindane	58-89-9	0.20	U	0.20	0.97	5
01363	Chlordane	57-74-9	19	U	19	20	5
01363	p,p-DDD	72-54-8	2.2	U	2.2	2.2	5
01363	p,p-DDE	72-55-9	3.5	U	3.5	3.5	5
01363	p,p-DDT	50-29-3	15	U	15	15	5
01363	Delta BHC	319-86-8	0.21	U	0.21	0.97	5
01363	Dieldrin	60-57-1	4.3	U	4.3	4.3	5
01363	Endosulfan I	959-98-8	0.26	U	0.26	0.97	5
01363	Endosulfan II	33213-65-9	0.72	U	0.72	2.0	5
01363	Endosulfan Sulfate	1031-07-8	0.38	U	0.38	2.0	5
01363	Endrin	72-20-8	0.38	U	0.38	2.0	5
01363	Endrin Aldehyde	7421-93-4	16	U	16	16	5
01363	Endrin Ketone	53494-70-5	0.38	U	0.38	2.0	5
01363	Heptachlor	76-44-8	0.35	U	0.35	0.97	5
01363	Heptachlor Epoxide	1024-57-3	0.24	U	0.24	0.97	5
01363	Methoxychlor	72-43-5	19	U	19	19	5
01363	Mirex	2385-85-5	6.2	U	6.2	6.2	5
01363	Toxaphene	8001-35-2	13	U	13	38	5
	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. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample extract.						
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	3.6	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	6.6		0.38	2.0	1
10225	PCB-1260	11096-82-5	7.1		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	9,230		5.64	22.4	1

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

Sample Description: **SL-114-SA5C-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125240
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL114 SDG#: DE005-03

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**	
07914	Boron	7440-42-8	5.64		0.997	5.60	1
01650	Calcium	7440-70-2	4,200		6.87	22.4	1
01654	Iron	7439-89-6	15,800		5.28	22.4	1
01656	Lithium	7439-93-2	10		0.25	2.2	1
01657	Magnesium	7439-95-4	3,920		2.85	11.2	1
06958	Manganese	7439-96-5	231		0.0874	0.560	1
10145	Phosphorus	7723-14-0	397		0.628	11.2	1
01662	Potassium	7440-09-7	3,310		20.2	56.0	1
01667	Sodium	7440-23-5	113		41.8	112	1
07968	Strontium	7440-24-6	15.9		0.0695	0.560	1
06969	Tin	7440-31-5	2.30	J	1.12	11.2	1
06970	Titanium	7440-32-6	889		0.439	1.15	1
10146	Zirconium	7440-67-7	1.94	J	0.941	5.60	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.507		0.0679	0.226	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	3.13		0.0679	0.453	2
06126	Barium	7440-39-3	74.8		0.122	0.453	2
06127	Beryllium	7440-41-7	0.361		0.0181	0.113	2
06128	Cadmium	7440-43-9	2.18		0.0407	0.113	2
06131	Chromium	7440-47-3	22.2		0.136	0.453	2
06132	Cobalt	7440-48-4	5.53		0.0226	0.113	2
06133	Copper	7440-50-8	15.7		0.0747	0.453	2
06135	Lead	7439-92-1	43.7		0.0118	0.226	2
06138	Molybdenum	7439-98-7	1.07		0.0566	0.113	2
06139	Nickel	7440-02-0	15.8		0.113	0.453	2
06141	Selenium	7782-49-2	0.136	J	0.0453	0.453	2
06142	Silver	7440-22-4	0.0527	J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.127		0.0339	0.113	2
06148	Vanadium	7440-62-2	27.1		0.0249	0.113	2
06149	Zinc	7440-66-6	991		6.34	33.9	20
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0131	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	1.5		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	35.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	4.6		0.23	1.2	1

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

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125240
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL114 SDG#: DE005-03

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.	449	10.0	10.0	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH		n.a.	7.37	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture CDM		n.a.	14.2	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	10305SLD026	11/14/2010 01:06	Ryan P Byrne	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/21/2010 23:13	Timothy J Trees	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10305SLD026	11/02/2010 08:15	Kerrie A Freeburn	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	103090019A	11/16/2010 12:26	John W Perkins	1
01363	OC Pesticides in Solids	SW-846 8081A	1	103090008A	12/02/2010 23:13	Jamie L Brillhart	5
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 18:43	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103090008A	11/06/2010 12:10	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103090019A	11/06/2010 05:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
07914	Boron	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
01654	Iron	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125240
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SL114 SDG#: DE005-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
06969	Tin	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	103135708001	11/09/2010 22:35	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103055708003	11/07/2010 20:15	John P Hook	1
06124	Antimony	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06125	Arsenic	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06126	Barium	SW-846 6020	1	103051026002D	11/06/2010 03:05	David K Beck	2
06127	Beryllium	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06128	Cadmium	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06131	Chromium	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06132	Cobalt	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06133	Copper	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06135	Lead	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103051026002C	11/06/2010 03:05	David K Beck	2
06139	Nickel	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06141	Selenium	SW-846 6020	1	103051026002B	11/06/2010 03:05	David K Beck	2
06142	Silver	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06145	Thallium	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06148	Vanadium	SW-846 6020	1	103051026002A	11/06/2010 03:05	David K Beck	2
06149	Zinc	SW-846 6020	2	103051026002A	11/09/2010 02:41	David K Beck	20
00159	Mercury	SW-846 7471A	1	103055711003	11/02/2010 06:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103055708003	11/01/2010 10:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103135708001	11/09/2010 12:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103051026002	11/05/2010 15:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103055711003	11/01/2010 11:55	James L Mertz	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 20:40	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201A	11/19/2010 16:38	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 10:00	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201A	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10312182101B	11/08/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10301039401A	10/28/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162402B	11/04/2010 09:33	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: EB03-SA5C-102710 Grab Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5C-102710

LLI Sample # WW 6125241
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:45

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLEB3 SDG#: DE005-04EB

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	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: EB03-SA5C-102710 Grab Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5C-102710

LLI Sample # WW 6125241
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:45

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLEB3 SDG#: DE005-04EB

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	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	0.049	1
10137	Acenaphthylene	208-96-8	0.0097	U	0.0097	0.049	1
10137	Anthracene	120-12-7	0.0097	U	0.0097	0.049	1
10137	Benzo(a)anthracene	56-55-3	0.0097	U	0.0097	0.049	1
10137	Benzo(a)pyrene	50-32-8	0.0097	U	0.0097	0.049	1
10137	Benzo(b)fluoranthene	205-99-2	0.0097	U	0.0097	0.049	1
10137	Benzo(g,h,i)perylene	191-24-2	0.0097	U	0.0097	0.049	1
10137	Benzo(k)fluoranthene	207-08-9	0.0097	U	0.0097	0.049	1
10137	Butylbenzylphthalate	85-68-7	0.049	U	0.049	0.97	1
10137	Di-n-butylphthalate	84-74-2	0.47	J	0.049	0.97	1
10137	Chrysene	218-01-9	0.0097	U	0.0097	0.049	1
10137	Dibenz(a,h)anthracene	53-70-3	0.0097	U	0.0097	0.049	1
10137	Diethylphthalate	84-66-2	0.14	J	0.049	0.97	1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.97	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.074	J	0.049	0.97	1
10137	Fluoranthene	206-44-0	0.0097	U	0.0097	0.049	1
10137	Fluorene	86-73-7	0.0097	U	0.0097	0.049	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0097	U	0.0097	0.049	1
10137	1-Methylnaphthalene	90-12-0	0.0097	U	0.0097	0.049	1
10137	2-Methylnaphthalene	91-57-6	0.0097	U	0.0097	0.049	1
10137	Naphthalene	91-20-3	0.041	J	0.0097	0.049	1
10137	N-Nitrosodimethylamine	62-75-9	0.0097	U	0.0097	0.049	1
10137	Di-n-octylphthalate	117-84-0	0.049	U	0.049	0.97	1
10137	Phenanthrene	85-01-8	0.0097	U	0.0097	0.049	1
10137	Pyrene	129-00-0	0.0097	U	0.0097	0.049	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .054 ug/l. The blank value was not subtracted from the analytical result.

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

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.49	1
10407	Dalapon	75-99-0	0.24	U	0.24	1.2	1
10407	2,4-DB	94-82-6	0.29	U	0.29	0.97	1
10407	Dicamba	1918-00-9	0.078	U	0.078	0.29	1
10407	Dinoseb	88-85-7	0.097	U	0.097	0.49	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.49	1
10407	MCPA	94-74-6	290	U	290	970	1
10407	MCPP	93-65-2	49	U	49	190	1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.049	1
10407	2,4,5-TP	93-72-1	0.0097	U	0.0097	0.049	1

Sample Description: **EB03-SA5C-102710 Grab Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5C-102710

LLI Sample # WW 6125241
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:45

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLEB3 SDG#: DE005-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0019 U	0.0019	0.0096	1
00177	Alpha BHC	319-84-6	0.0029 U	0.0029	0.0096	1
00177	Beta BHC	319-85-7	0.0028 U	0.0028	0.0096	1
00177	Gamma BHC - Lindane	58-89-9	0.0019 U	0.0019	0.0096	1
00177	Chlordane	57-74-9	0.12 U	0.12	0.48	1
00177	p,p-DDD	72-54-8	0.0048 U	0.0048	0.019	1
00177	p,p-DDE	72-55-9	0.0048 U	0.0048	0.019	1
00177	p,p-DDT	50-29-3	0.0048 U	0.0048	0.019	1
00177	Delta BHC	319-86-8	0.0028 U	0.0028	0.0096	1
00177	Dieldrin	60-57-1	0.0051 U	0.0051	0.019	1
00177	Endosulfan I	959-98-8	0.0041 U	0.0041	0.0096	1
00177	Endosulfan II	33213-65-9	0.014 U	0.014	0.019	1
00177	Endosulfan Sulfate	1031-07-8	0.0052 U	0.0052	0.019	1
00177	Endrin	72-20-8	0.0053 U	0.0053	0.019	1
00177	Endrin Aldehyde	7421-93-4	0.019 U	0.019	0.096	1
00177	Endrin Ketone	53494-70-5	0.0048 U	0.0048	0.019	1
00177	Heptachlor	76-44-8	0.0019 U	0.0019	0.0096	1
00177	Heptachlor Epoxide	1024-57-3	0.0022 U	0.0022	0.0096	1
00177	Methoxychlor	72-43-5	0.029 U	0.029	0.096	1
00177	Mirex	2385-85-5	0.081 U	0.081	0.24	1
00177	Toxaphene	8001-35-2	0.96 U	0.96	2.9	1

The LCSD recovery for endrin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.097 U	0.097	0.48	1
10227	Aroclor 5442	12642-23-8	0.097 U	0.097	0.48	1
10227	Aroclor 5460	11126-42-4	0.097 U	0.097	0.48	1
10227	PCB-1016	12674-11-2	0.097 U	0.097	0.48	1
10227	PCB-1221	11104-28-2	0.097 U	0.097	0.48	1
10227	PCB-1232	11141-16-5	0.19 U	0.19	0.48	1
10227	PCB-1242	53469-21-9	0.097 U	0.097	0.48	1
10227	PCB-1248	12672-29-6	0.097 U	0.097	0.48	1
10227	PCB-1254	11097-69-1	0.097 U	0.097	0.48	1
10227	PCB-1260	11096-82-5	0.097 U	0.097	0.48	1
10227	PCB-1262	37324-23-5	0.19 U	0.19	0.48	1
10227	PCB-1268	11100-14-4	0.15 U	0.15	0.48	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

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

Sample Description: **EB03-SA5C-102710 Grab Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5C-102710

LLI Sample # WW 6125241
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:45

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLEB3 SDG#: DE005-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
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	**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
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10306WAH026	11/15/2010 03:18	Florida A Cimino	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10304WAZ026	11/13/2010 03:21	Gregory J Drahovsky	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: EB03-SA5C-102710 Grab Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5C-102710

LLI Sample # WW 6125241
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:45

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLEB3 SDG#: DE005-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00813	BNA Water Extraction	SW-846 3510C	1	10306WAH026	11/02/2010 22:30	Karen L Beyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10304WAZ026	11/01/2010 22:30	Elaine F Stoltzfus	1
10407	Herb water 8151A Master	SW-846 8151A	1	103010017A	11/01/2010 05:00	Michele D Hamilton	1
00177	OC Pesticides in Water	SW-846 8081A	1	103060020A	11/15/2010 20:08	Lisa A Reinert	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103020013A	11/05/2010 14:34	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103020013A	10/30/2010 07:00	Karen L Beyer	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103060020A	11/02/2010 14:00	Olivia I Santiago	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103010017A	10/29/2010 08:30	Kerrie A Freeburn	1
01743	Aluminum	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
08014	Boron	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
01750	Calcium	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
01754	Iron	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
01756	Lithium	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
07058	Manganese	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
01762	Potassium	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
01767	Sodium	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
08068	Strontium	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
07069	Tin	SW-846 6010B	1	103051848002	11/09/2010 15:23	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103051848002	11/05/2010 17:40	John P Hook	1
06024	Antimony	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06025	Arsenic	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06026	Barium	SW-846 6020	1	103056050001D	11/08/2010 01:50	David K Beck	1
06027	Beryllium	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06028	Cadmium	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06031	Chromium	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06032	Cobalt	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06033	Copper	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06035	Lead	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06038	Molybdenum	SW-846 6020	1	103056050001C	11/08/2010 01:50	David K Beck	1
06039	Nickel	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06041	Selenium	SW-846 6020	1	103056050001B	11/08/2010 01:50	David K Beck	1
06042	Silver	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06045	Thallium	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06048	Vanadium	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
06049	Zinc	SW-846 6020	1	103056050001A	11/08/2010 01:50	David K Beck	1
00259	Mercury	SW-846 7470A	1	103095713002	11/08/2010 08:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103051848002	11/01/2010 21:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103056050001	11/01/2010 21:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103095713002	11/05/2010 16:40	Nelli S Markaryan	1
06467	Hexavalent Chromium (water)	SW-846 7199	1	10301621301A	10/28/2010 11:38	William L Hamaker Jr	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **FB03-SA5C-102710 Grab Water**
SSFL Area IV Collocated Soil Sampling
FB03-SA5C-102710

LLI Sample # WW 6125242
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:30

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLFB3 SDG#: DE005-05FB*

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	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
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

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

Sample Description: **FB03-SA5C-102710 Grab Water**
SSFL Area IV Collocated Soil Sampling
FB03-SA5C-102710

LLI Sample # WW 6125242
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:30

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLFB3 SDG#: DE005-05FB*

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	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	0.0099	U	0.0099	0.050	1
10137	Acenaphthylene	208-96-8	0.0099	U	0.0099	0.050	1
10137	Anthracene	120-12-7	0.0099	U	0.0099	0.050	1
10137	Benzo(a)anthracene	56-55-3	0.0099	U	0.0099	0.050	1
10137	Benzo(a)pyrene	50-32-8	0.0099	U	0.0099	0.050	1
10137	Benzo(b)fluoranthene	205-99-2	0.0099	U	0.0099	0.050	1
10137	Benzo(g,h,i)perylene	191-24-2	0.0099	U	0.0099	0.050	1
10137	Benzo(k)fluoranthene	207-08-9	0.0099	U	0.0099	0.050	1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	0.99	1
10137	Di-n-butylphthalate	84-74-2	0.48	J	0.050	0.99	1
10137	Chrysene	218-01-9	0.0099	U	0.0099	0.050	1
10137	Dibenz(a,h)anthracene	53-70-3	0.0099	U	0.0099	0.050	1
10137	Diethylphthalate	84-66-2	0.13	J	0.050	0.99	1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	0.99	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.099	J	0.050	0.99	1
10137	Fluoranthene	206-44-0	0.0099	U	0.0099	0.050	1
10137	Fluorene	86-73-7	0.0099	U	0.0099	0.050	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0099	U	0.0099	0.050	1
10137	1-Methylnaphthalene	90-12-0	0.0099	U	0.0099	0.050	1
10137	2-Methylnaphthalene	91-57-6	0.0099	U	0.0099	0.050	1
10137	Naphthalene	91-20-3	0.039	J	0.0099	0.050	1
10137	N-Nitrosodimethylamine	62-75-9	0.0099	U	0.0099	0.050	1
10137	Di-n-octylphthalate	117-84-0	0.050	U	0.050	0.99	1
10137	Phenanthrene	85-01-8	0.0099	U	0.0099	0.050	1
10137	Pyrene	129-00-0	0.0099	U	0.0099	0.050	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .054 ug/l. The blank value was not subtracted from the analytical result.

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

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.49	1
10407	Dalapon	75-99-0	0.24	U	0.24	1.2	1
10407	2,4-DB	94-82-6	0.29	U	0.29	0.98	1
10407	Dicamba	1918-00-9	0.078	U	0.078	0.29	1
10407	Dinoseb	88-85-7	0.098	U	0.098	0.49	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.49	1
10407	MCPA	94-74-6	290	U	290	980	1
10407	MCPP	93-65-2	49	U	49	200	1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.049	1
10407	2,4,5-TP	93-72-1	0.0098	U	0.0098	0.049	1

Sample Description: **FB03-SA5C-102710 Grab Water**
SSFL Area IV Collocated Soil Sampling
FB03-SA5C-102710

LLI Sample # WW 6125242
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:30

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLFB3 SDG#: DE005-05FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0050 U	0.0050	0.0099	1
00177	Alpha BHC	319-84-6	0.0030 U	0.0030	0.0099	1
00177	Beta BHC	319-85-7	0.0029 U	0.0029	0.0099	1
00177	Gamma BHC - Lindane	58-89-9	0.0020 U	0.0020	0.0099	1
00177	Chlordane	57-74-9	0.12 U	0.12	0.50	1
00177	p,p-DDD	72-54-8	0.0050 U	0.0050	0.020	1
00177	p,p-DDE	72-55-9	0.0050 U	0.0050	0.020	1
00177	p,p-DDT	50-29-3	0.0050 U	0.0050	0.020	1
00177	Delta BHC	319-86-8	0.0029 U	0.0029	0.0099	1
00177	Dieldrin	60-57-1	0.0052 U	0.0052	0.020	1
00177	Endosulfan I	959-98-8	0.0043 U	0.0043	0.0099	1
00177	Endosulfan II	33213-65-9	0.015 U	0.015	0.020	1
00177	Endosulfan Sulfate	1031-07-8	0.0053 U	0.0053	0.020	1
00177	Endrin	72-20-8	0.0054 U	0.0054	0.020	1
00177	Endrin Aldehyde	7421-93-4	0.020 U	0.020	0.099	1
00177	Endrin Ketone	53494-70-5	0.0050 U	0.0050	0.020	1
00177	Heptachlor	76-44-8	0.0020 U	0.0020	0.0099	1
00177	Heptachlor Epoxide	1024-57-3	0.0023 U	0.0023	0.0099	1
00177	Methoxychlor	72-43-5	0.030 U	0.030	0.099	1
00177	Mirex	2385-85-5	0.084 U	0.084	0.25	1
00177	Toxaphene	8001-35-2	0.99 U	0.99	3.0	1

The LCSD recovery for endrin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098 U	0.098	0.49	1
10227	Aroclor 5442	12642-23-8	0.098 U	0.098	0.49	1
10227	Aroclor 5460	11126-42-4	0.098 U	0.098	0.49	1
10227	PCB-1016	12674-11-2	0.098 U	0.098	0.49	1
10227	PCB-1221	11104-28-2	0.098 U	0.098	0.49	1
10227	PCB-1232	11141-16-5	0.20 U	0.20	0.49	1
10227	PCB-1242	53469-21-9	0.098 U	0.098	0.49	1
10227	PCB-1248	12672-29-6	0.098 U	0.098	0.49	1
10227	PCB-1254	11097-69-1	0.098 U	0.098	0.49	1
10227	PCB-1260	11096-82-5	0.098 U	0.098	0.49	1
10227	PCB-1262	37324-23-5	0.20 U	0.20	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

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

Sample Description: **FB03-SA5C-102710 Grab Water**
SSFL Area IV Collocated Soil Sampling
FB03-SA5C-102710

LLI Sample # WW 6125242
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:30

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLFB3 SDG#: DE005-05FB*

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**	
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		**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
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10306WAH026	11/15/2010 03:44	Florida A Cimino	1

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

Sample Description: **FB03-SA5C-102710 Grab Water**
SSFL Area IV Collocated Soil Sampling
FB03-SA5C-102710

LLI Sample # WW 6125242
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:30

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLFB3 SDG#: DE005-05FB*

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	10304WAZ026	11/13/2010 03:52	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10306WAH026	11/02/2010 22:30	Karen L Beyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10304WAZ026	11/01/2010 22:30	Elaine F Stoltzfus	1
10407	Herb water 8151A Master	SW-846 8151A	1	103010017A	11/01/2010 05:27	Michele D Hamilton	1
00177	OC Pesticides in Water	SW-846 8081A	1	103060020A	11/15/2010 20:21	Lisa A Reinert	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103020013A	11/05/2010 14:53	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103020013A	10/30/2010 07:00	Karen L Beyer	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103060020A	11/02/2010 14:00	Olivia I Santiago	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103010017A	10/29/2010 08:30	Kerrie A Freeburn	1
01743	Aluminum	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
08014	Boron	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
01750	Calcium	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
01754	Iron	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
01756	Lithium	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
07058	Manganese	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
01762	Potassium	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
01767	Sodium	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
08068	Strontium	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
07069	Tin	SW-846 6010B	1	103051848002	11/09/2010 15:26	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103051848002	11/05/2010 17:43	John P Hook	1
06024	Antimony	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06025	Arsenic	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06026	Barium	SW-846 6020	1	103056050001D	11/08/2010 01:54	David K Beck	1
06027	Beryllium	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06028	Cadmium	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06031	Chromium	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06032	Cobalt	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06033	Copper	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06035	Lead	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06038	Molybdenum	SW-846 6020	1	103056050001C	11/08/2010 01:54	David K Beck	1
06039	Nickel	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06041	Selenium	SW-846 6020	1	103056050001B	11/08/2010 01:54	David K Beck	1
06042	Silver	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06045	Thallium	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06048	Vanadium	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
06049	Zinc	SW-846 6020	1	103056050001A	11/08/2010 01:54	David K Beck	1
00259	Mercury	SW-846 7470A	1	103095713002	11/08/2010 08:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103051848002	11/01/2010 21:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103056050001	11/01/2010 21:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103095713002	11/05/2010 16:40	Nelli S Markaryan	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **FB03-SA5C-102710 Grab Water**
SSFL Area IV Collocated Soil Sampling
FB03-SA5C-102710

LLI Sample # WW 6125242
LLI Group # 1218506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:30

Submitted: 10/28/2010 08:50
Reported: 12/06/2010 16:05

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

SLFB3 SDG#: DE005-05FB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06467	Hexavalent Chromium (water)	SW-846 7199	1	10301621301A	10/28/2010 11:31	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. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

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: 10304WAZ026	Sample number(s): 6125241-6125242									
Acenaphthene	0.010	U	0.010	0.050	ug/l	119*	105	74-109	12	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	102	101	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	105	98	66-111	8	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	100	94	72-114	6	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	109	108	64-115	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	120	121	69-123	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	109	109	68-125	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	106	106	72-122	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	91	64*	70-130	34*	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	97	110	70-130	13	30
Chrysene	0.010	U	0.010	0.050	ug/l	118*	104	76-116	13	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	114	111	71-125	3	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	106	76	70-130	34*	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	68*	67*	70-130	2	30
Bis(2-Ethylhexyl)phthalate	0.054	J	0.050	1.0	ug/l	101	84	70-130	19	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	91	118*	75-116	27	30
Fluorene	0.010	U	0.010	0.050	ug/l	126*	92	75-114	30	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	114	111	69-124	3	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	99	100	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	89	90	75-115	1	30
Naphthalene	0.010	U	0.010	0.050	ug/l	98	97	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	61*	59*	70-130	3	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	102	102	70-130	0	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	107	105	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	97	95	69-118	2	30
Batch number: 10305SLD026	Sample number(s): 6125238-6125240									
Aniline	170 U		170.	500	ug/kg	78		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	101		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	103		65-122		
Benzoic acid	170 U		170.	500	ug/kg	94		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	100		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	101		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	101		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	54		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	84		68-131		

*- 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. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	113		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	94		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	83		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	90		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	93		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	91		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	95		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	100		75-117		
Fluoranthene	17	U	17.	170	ug/kg	101		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	101		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	100		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	98		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Isophorone	17	U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	92		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	99		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	93		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	110		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	94		35-106		
Phenanthrene	17	U	17.	170	ug/kg	98		77-113		
Phenol	17	U	17.	170	ug/kg	96		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 10306WAH026	Sample number(s): 6125241-6125242									
Aniline	1	U	1.	5	ug/l	58	70	49-101	19	30
Benzidine	20	U	20.	60	ug/l	54	63	20-109	16	30
Benzoic acid	6	U	6.	15	ug/l	33	32	10-69	3	30
Benzyl alcohol	5	U	5.	15	ug/l	84	87	66-97	4	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	98	92	82-117	6	30
Carbazole	1	U	1.	5	ug/l	99	93	81-114	6	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	94	92	70-123	1	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. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloroaniline	1	U	1.	5	ug/l	42	57	42-124	29	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	83	80	74-124	4	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	83	81	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	76	73	62-127	4	30
2-Chloronaphthalene	2	U	2.	5	ug/l	97	97	54-132	1	30
2-Chlorophenol	1	U	1.	5	ug/l	95	94	77-108	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	88	82-111	4	30
Dibenzofuran	1	U	1.	5	ug/l	89	87	83-108	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	69	69	67-108	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	65	64	63-110	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	67	67	65-113	1	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	60	68	49-111	13	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	97	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	95	95	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	97	93	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	93	90	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	88	88	64-120	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	93	89	81-115	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	90	92	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	94	90	78-116	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	98	90	81-118	9	30
Hexachlorobutadiene	1	U	1.	5	ug/l	70	69	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	59	60	10-118	3	30
Hexachloroethane	1	U	1.	5	ug/l	59	59	52-113	0	30
Isophorone	1	U	1.	5	ug/l	83	82	74-117	1	30
2-Methylphenol	1	U	1.	5	ug/l	85	84	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	79	80	61-103	0	30
2-Nitroaniline	1	U	1.	5	ug/l	94	95	83-116	0	30
3-Nitroaniline	1	U	1.	5	ug/l	92	92	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	73	72	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	84	83	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	99	102	86-120	4	30
4-Nitrophenol	10	U	10.	30	ug/l	46	46	16-78	0	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	80	75	69-110	6	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	96	91	67-136	5	30
Pentachlorophenol	3	U	3.	15	ug/l	100	100	53-110	1	30
Phenol	1	U	1.	5	ug/l	43	45	29-67	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	72	72	71-112	0	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	101	103	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	103	104	81-113	1	30

Batch number: 10308SLA026 Sample number(s): 6125238-6125240

Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		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	89		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	88		58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	90		63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	108		44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	82		66-137
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	120		65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		84-132
Chrysene	0.33	U	0.33	1.7	ug/kg	95		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	99		68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	100		70-130
Fluoranthene	0.67	U	0.67	1.7	ug/kg	82		78-120
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		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	90		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	115		56-121		
Batch number: 103010017A	Sample number(s): 6125241-6125242									
2,4-D	0.16	U	0.16	0.50	ug/l	112	96	45-128	15	30
Dalapon	0.25	U	0.25	1.3	ug/l	76	81	40-100	6	30
2,4-DB	0.30	U	0.30	1.0	ug/l	96	80	41-138	18	30
Dicamba	0.080	U	0.080	0.30	ug/l	108	96	51-144	12	30
Dinoseb	0.10	U	0.10	0.50	ug/l	56	53	23-93	4	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	124	108	72-145	14	30
MCPA	300 U		300.	1,000	ug/l	100	86	69-129	15	30
MCPP	50	U	50.	200	ug/l	104	88	66-132	17	30
2,4,5-T	0.024	J	0.015	0.050	ug/l	108	92	53-141	16	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	112	100	56-135	11	30
Batch number: 103090019A	Sample number(s): 6125238-6125240									
2,4-D	1.2	U	1.2	3.6	ug/kg	112		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	53		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	100		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	84		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	126		60-141		
MCPA	76	U	76.	250	ug/kg	83		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	85		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	104		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	86		48-138		
Batch number: 103020013A	Sample number(s): 6125241-6125242									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	66*	66*	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	88	88	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	94	92	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: 103060020A	Sample number(s): 6125241-6125242									
Aldrin	0.0020	U	0.0020	0.010	ug/l	77	79	54-159	3	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	86	91	59-146	6	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	90	93	73-147	3	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	82	88	68-128	7	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	100	105	71-139	5	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	95	95	66-130	0	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	80	85	53-126	6	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	95	98	76-148	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dieldrin	0.0053	U	0.0053	0.020	ug/l	90	95	76-132	5	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	71	76	68-128	7	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	89	95	59-144	6	30
Endosulfan Sulfate	0.0054	U	0.0054	0.020	ug/l	100	111	71-142	10	30
Endrin	0.0055	U	0.0055	0.020	ug/l	95	50*	52-132	63*	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	105	121	68-139	14	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	111	142	69-146	25	30
Heptachlor	0.0020	U	0.0020	0.010	ug/l	93	90	57-126	3	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	86	91	73-156	5	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	93	97	52-133	4	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 103080005A	Sample number(s): 6125238-6125240									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	78	71*	75-125	9	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		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	107		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: 103090008A	Sample number(s): 6125238-6125240									
Aldrin	0.066	U	0.066	0.17	ug/kg	94		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	100		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	100		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	193*		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	152*		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	157*		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	135*		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	127*		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	41*		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	111		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	141*		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	92		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	147*		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	109		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	196*		59-125		
Mirex	0.073	J	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103051026002A	Sample number(s): 6125238-6125240									
Antimony	0.0577	U	0.0577	0.192	mg/kg	69		11-208		
Arsenic	0.0577	U	0.0577	0.385	mg/kg	107		80-120		
Beryllium	0.0154	U	0.0154	0.0962	mg/kg	104		82-118		
Cadmium	0.0346	U	0.0346	0.0962	mg/kg	99		82-118		
Chromium	0.115	U	0.115	0.385	mg/kg	112		80-120		
Cobalt	0.0192	U	0.0192	0.0962	mg/kg	109		82-118		
Copper	0.251	J	0.0635	0.385	mg/kg	107		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	0.0365 J	0.0100	0.192	mg/kg	103		80-120		
Nickel	0.0962 U	0.0962	0.385	mg/kg	110		80-120		
Silver	0.0115 U	0.0115	0.0962	mg/kg	108		66-134		
Thallium	0.0288 U	0.0288	0.0962	mg/kg	105		81-119		
Vanadium	0.0212 U	0.0212	0.0962	mg/kg	96		90-110		
Zinc	0.538 U	0.538	2.88	mg/kg	102		78-122		
Batch number: 103051026002B	Sample number(s): 6125238-6125240								
Selenium	0.0385 U	0.0385	0.385	mg/kg	104		79-122		
Batch number: 103051026002C	Sample number(s): 6125238-6125240								
Molybdenum	0.0481 U	0.0481	0.0962	mg/kg	106		78-122		
Batch number: 103051026002D	Sample number(s): 6125238-6125240								
Barium	0.104 U	0.104	0.385	mg/kg	103		79-121		
Batch number: 103051848002	Sample number(s): 6125241-6125242								
Aluminum	0.0834 U	0.0834	0.200	mg/l	106	102	90-112	4	20
Boron	0.0138 U	0.0138	0.0500	mg/l	99	99	90-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	103	101	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	104	103	90-112	2	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	99	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	100	100	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	103	103	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	106	104	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	101	100	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	102	101	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	103	104	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	102	102	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	101	104	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	103	104	80-120	1	20
Batch number: 103055708003	Sample number(s): 6125238-6125240								
Aluminum	4.93 U	4.93	19.6	mg/kg	90		61-110		
Boron	0.873 U	0.873	4.90	mg/kg	97		78-110		
Calcium	6.01 U	6.01	19.6	mg/kg	97		88-110		
Iron	4.62 U	4.62	19.6	mg/kg	86		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	99		80-120		
Magnesium	2.49 U	2.49	9.80	mg/kg	97		82-110		
Manganese	0.0765 U	0.0765	0.490	mg/kg	100		81-119		
Phosphorus	1.53 J	0.549	9.80	mg/kg	103		80-120		
Potassium	17.6 U	17.6	49.0	mg/kg	97		78-110		
Sodium	36.6 U	36.6	98.0	mg/kg	98		87-110		
Strontium	0.0608 U	0.0608	0.490	mg/kg	102		79-121		
Tin	1.12 J	0.980	9.80	mg/kg	96		90-114		
Zirconium	0.824 U	0.824	4.90	mg/kg	100		80-120		
Batch number: 103055711003	Sample number(s): 6125238-6125240								
Mercury	0.0029 U	0.0029	0.0997	mg/kg	105		88-123		
Batch number: 103056050001A	Sample number(s): 6125241-6125242								
Antimony	0.00030 U	0.00030	0.0010	mg/l	92	102	87-110	10	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	97	110	86-111	12	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	96	104	90-112	8	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	103	114	90-114	10	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	96	107	90-118	11	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	108	80-120	10	20
Copper	0.00038 U	0.00038	0.0020	mg/l	99	112	90-113	12	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	0.000052 U	0.00005 2	0.0010	mg/l	98	107	90-115	8	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	98	111	90-113	13	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	101	108	90-115	7	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	105	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	99	109	80-120	10	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	108	112	80-120	3	20
Batch number: 103056050001B	Sample number(s): 6125241-6125242								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	108	85-114	1	20
Batch number: 103056050001C	Sample number(s): 6125241-6125242								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	96	107	80-120	11	20
Batch number: 103056050001D	Sample number(s): 6125241-6125242								
Barium	0.00038 U	0.00038	0.0020	mg/l	95	104	88-113	9	20
Batch number: 103095713002	Sample number(s): 6125241-6125242								
Mercury	0.000056 U	0.00005 6	0.00020	mg/l	100	95	80-120	5	20
Batch number: 103135708001	Sample number(s): 6125238-6125240								
Titanium	0.365 U	0.365	0.962	mg/kg	97		85-115		
Batch number: 10301621301A	Sample number(s): 6125241-6125242								
Hexavalent Chromium (water)	5.0 U	5.0	10.0	ug/l	99	95	90-110	4	20
Batch number: 10315243201A	Sample number(s): 6125238-6125240								
Hexavalent Chromium by IC	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10315315201A	Sample number(s): 6125238-6125240								
Fluoride by IC (solid)	0.80 U	0.80	1.0	mg/kg	103		90-110		
Batch number: 10322322201A	Sample number(s): 6125238-6125240								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	107		85-115		
Batch number: 10301039401A	Sample number(s): 6125238-6125240								
pH					100		95-105		
Batch number: 10312182101B	Sample number(s): 6125238-6125240								
Oxidation Reduction Potential					98		98-102		
Batch number: 10308162402B	Sample number(s): 6125238-6125240								
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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10305SLD026	Sample number(s): 6125238-6125240 UNSPK: 6125238								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Aniline	0*	0*	14-114	0	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(b)fluoranthene	94	96	59-125	2	30				
Benzo(g,h,i)perylene	117	112	59-127	4	30				
Benzoic acid	63	69	10-173	10	30				
Benzyl alcohol	97	99	55-123	3	30				
4-Bromophenyl-phenylether	112	105	67-129	6	30				
Butylbenzylphthalate	105	108	73-134	3	30				
Di-n-butylphthalate	94	100	67-123	6	30				
Carbazole	99	103	64-120	3	30				
4-Chloro-3-methylphenol	83	90	53-130	7	30				
4-Chloroaniline	58	52	23-95	12	30				
bis(2-Chloroethoxy)methane	88	94	54-117	6	30				
bis(2-Chloroethyl)ether	87	92	60-116	5	30				
bis(2-Chloroisopropyl)ether	90	91	55-142	1	30				
2-Chloronaphthalene	95	88	50-141	9	30				
2-Chlorophenol	91	96	73-121	5	30				
4-Chlorophenyl-phenylether	95	98	64-119	3	30				
Chrysene	103	102	62-128	1	30				
Dibenzofuran	99	96	71-112	3	30				
1,2-Dichlorobenzene	91	97	66-108	6	30				
1,3-Dichlorobenzene	89	93	63-109	4	30				
1,4-Dichlorobenzene	92	96	53-113	4	30				
3,3'-Dichlorobenzidine	0*	32	25-123	200*	30				
2,4-Dichlorophenol	93	92	78-117	1	30				
Diethylphthalate	91	93	66-118	1	30				
2,4-Dimethylphenol	91	96	56-130	5	30				
3,5-Dimethylphenol	97	94	70-130	4	30				
Dimethylphthalate	94	88	64-118	6	30				
4,6-Dinitro-2-methylphenol	83	74	10-148	12	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	82	81	57-114	2	30				
2,6-Dinitrotoluene	83	85	69-123	2	30				
1,2-Diphenylhydrazine	98	99	71-129	1	30				
bis(2-Ethylhexyl)phthalate	97	104	63-122	7	30				
Fluoranthene	97	100	59-122	3	30				
Hexachlorobenzene	97	95	61-111	2	30				
Hexachlorobutadiene	110	107	62-120	3	30				
Hexachlorocyclopentadiene	60	49	10-153	19	30				
Hexachloroethane	85	89	57-109	5	30				
Isophorone	86	92	51-118	6	30				
2-Methylphenol	87	91	47-142	5	30				
4-Methylphenol	93	93	55-126	1	30				
2-Nitroaniline	92	93	67-125	2	30				
3-Nitroaniline	76	76	59-122	1	30				
4-Nitroaniline	73	77	52-112	4	30				
Nitrobenzene	89	95	51-114	6	30				
2-Nitrophenol	92	100	74-115	7	30				
4-Nitrophenol	85	81	39-133	5	30				
N-Nitroso-di-n-propylamine	82	84	60-116	3	30				
N-Nitrosodiphenylamine	103	110	86-145	7	30				
Di-n-octylphthalate	111	104	56-126	6	30				
Pentachlorophenol	86	90	17-149	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenanthrene	97	96	65-125	1	30				
Phenol	88	91	58-126	4	30				
1,2,4-Trichlorobenzene	95	103	72-115	7	30				
2,4,5-Trichlorophenol	98	96	34-139	2	30				
2,4,6-Trichlorophenol	100	106	49-140	6	30				
Batch number: 10308SLA026	Sample number(s): 6125238-6125240 UNSPK: P130715								
Acenaphthene	84	96	63-105	13	30				
Acenaphthylene	80	84	55-126	5	30				
Anthracene	82	88	46-136	8	30				
Benzo(a)anthracene	89	95	39-144	7	30				
Benzo(a)pyrene	82	85	34-156	4	30				
Benzo(b)fluoranthene	93	85	43-155	9	30				
Benzo(g,h,i)perylene	55	103	33-141	61*	30				
Benzo(k)fluoranthene	92	79	42-144	15	30				
Butylbenzylphthalate	110	118	73-140	7	30				
Di-n-butylphthalate	98	98	78-160	0	30				
Chrysene	90	97	29-156	8	30				
Dibenz(a,h)anthracene	69	99	41-130	36*	30				
Diethylphthalate	95	105	87-131	10	30				
Dimethylphthalate	95	99	74-118	4	30				
Fluoranthene	70	74	26-166	6	30				
Fluorene	84	88	45-121	5	30				
Indeno(1,2,3-cd)pyrene	64	99	21-143	42*	30				
1-Methylnaphthalene	85	87	72-123	3	30				
2-Methylnaphthalene	76	78	28-121	3	30				
Naphthalene	81	85	61-102	4	30				
N-Nitrosodimethylamine	86	98	48-113	13	30				
Di-n-octylphthalate	250*	89	40-192	83*	30				
Phenanthrene	84	90	12-165	7	30				
Pyrene	99	102	15-153	3	30				
Batch number: 103090019A	Sample number(s): 6125238-6125240 UNSPK: 6125238								
2,4-D	21*	28	28-161	10	35				
Dalapon	0*	0*	12-86	0	50				
2,4-DB	0*	176*	20-170	200*	50				
Dicamba	-63*	-52*	33-120	13	50				
Dinoseb	15	22	1-44	39*	35				
2,4-DP (Dichlorprop)	119	100	55-141	17	50				
MCPA	141	152	31-184	8	50				
MCPP (Mecoprop)	0*	-79*	16-174	200*	50				
2,4,5-T	99	119	25-132	19	35				
2,4,5-TP	0*	0*	10-183	0	35				
Batch number: 103080005A	Sample number(s): 6125238-6125240 UNSPK: P130715								
PCB-1016	91	86	29-146	5	50				
PCB-1260	109	104	39-149	5	50				
Batch number: 103090008A	Sample number(s): 6125238-6125240 UNSPK: 6125239								
Aldrin	100	87	16-126	14	50				
Alpha BHC	133*	58	10-129	79*	50				
Beta BHC	63	26	14-147	52*	50				
Gamma BHC - Lindane	97	67	10-140	37	50				

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Quality Control Summary

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Reported: 12/06/10 at 04:05 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p,p-DDD	185*	115	16-163	47	50				
p,p-DDE	181*	105	18-161	53*	50				
p,p-DDT	331*	206*	10-176	46	50				
Delta BHC	109	91	23-140	19	50				
Dieldrin	98	56	19-154	55*	50				
Endosulfan I	130	103	16-137	23	50				
Endosulfan II	68	19*	28-154	113*	50				
Endosulfan Sulfate	108	62	21-160	54*	50				
Endrin	144	91	11-149	45	50				
Endrin Aldehyde	97	69	10-148	33	35				
Endrin Ketone	126	0*	22-165	200*	50				
Heptachlor	130*	70	13-126	61*	50				
Heptachlor Epoxide	132	81	13-157	48	50				
Methoxychlor	185*	99	32-147	61*	50				
Batch number: 103051026002A	Sample number(s): 6125238-6125240 UNSPK: 6125238 BKG: 6125238								
Antimony	46*	42*	75-125	10	20	0.170 J	0.266	44* (1)	20
Arsenic	122	119	75-125	3	20	3.25	3.70	13	20
Beryllium	93	97	75-125	1	20	0.393	0.452	14 (1)	20
Cadmium	103	112	75-125	5	20	0.203	0.205	1 (1)	20
Chromium	637*	105	75-125	103*	20	15.0	16.8	11	20
Cobalt	90	93	75-125	0	20	4.62	5.08	10	20
Copper	101	99	75-125	3	20	7.48	8.41	12	20
Lead	166*	175*	75-125	1	20	10.4	15.2	38*	20
Nickel	452*	101	75-125	94*	20	10.1	11.2	10	20
Silver	100	108	75-125	5	20	0.0221 J	0.109	132* (1)	20
Thallium	86	98	75-125	6	20	0.237	0.253	7 (1)	20
Vanadium	112	116	75-125	0	20	29.8	32.8	10	20
Zinc	247 (2)	300 (2)	75-125	4	20	83.1	107	25*	20
Batch number: 103051026002B	Sample number(s): 6125238-6125240 UNSPK: 6125238 BKG: 6125238								
Selenium	88	87	75-125	4	20	0.136 J	0.130 J	5 (1)	20
Batch number: 103051026002C	Sample number(s): 6125238-6125240 UNSPK: 6125238 BKG: 6125238								
Molybdenum	111	104	75-125	9	20	0.436	0.463	6 (1)	20
Batch number: 103051026002D	Sample number(s): 6125238-6125240 UNSPK: 6125238 BKG: 6125238								
Barium	206 (2)	169 (2)	75-125	4	20	87.4	100	14	20
Batch number: 103055708003	Sample number(s): 6125238-6125240 UNSPK: 6125238 BKG: 6125238								
Aluminum	1705 (2)	922 (2)	75-125	10	20	13,100	13,200	0	20
Boron	99	95	84-115	3	20	1.42 J	1.80 J	23* (1)	20
Calcium	210 (2)	177 (2)	75-125	3	20	2,920	3,000	3	20
Iron	132 (2)	-1419 (2)	75-125	9	20	18,600	17,700	5	20
Lithium	102	97	82-114	3	20	21.2	19.6	8	20
Magnesium	86 (2)	-51 (2)	75-125	6	20	4,750	4,420	7	20
Manganese	72 (2)	66 (2)	75-125	1	20	281	268	5	20
Phosphorus	50 (2)	74 (2)	75-125	4	20	507	457	10	20
Potassium	107 (2)	89 (2)	75-125	3	20	3,990	3,730	7	20
Sodium	103	100	75-125	2	20	83.6 J	87.2 J	4 (1)	20
Strontium	103	98	75-115	3	20	15.3	16.5	8	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Tin	86	84	80-110	2	20	2.07	J	2.05	J	1 (1)	20
Zirconium	97	94	75-125	3	20	2.59	J	3.63	J	34* (1)	20
Batch number: 103055711003	Sample number(s): 6125238-6125240 UNSPK: 6125239 BKG: 6125239										
Mercury	104	97	80-120	6	20	0.0060	J	0.0028	U	200* (1)	20
Batch number: 103135708001	Sample number(s): 6125238-6125240 UNSPK: P133892 BKG: P133892										
Titanium	-58 (2)	420 (2)	75-125	38*	20	1,070		1,100		3	20
Batch number: 10315243201A	Sample number(s): 6125238-6125240 UNSPK: P130715 BKG: P130715										
Hexavalent Chromium by IC	89		75-125			0.86	J	0.63	J	30* (1)	20
Batch number: 10315315201A	Sample number(s): 6125238-6125240 UNSPK: P130715 BKG: P130715										
Fluoride by IC (solid)	71*		80-120			2.0		2.1		4 (1)	20
Batch number: 10322322201A	Sample number(s): 6125238-6125240 UNSPK: 6125238 BKG: 6125238										
Perchlorate in Soil	114		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 10301039401A	Sample number(s): 6125238-6125240 BKG: 6125240										
pH						7.37		7.77		5*	1
Batch number: 10312182101B	Sample number(s): 6125238-6125240 BKG: P123706										
Oxidation Reduction Potential						431		473		9*	6
Batch number: 10308162402B	Sample number(s): 6125238-6125240 BKG: 6125239										
Moisture CDM						11.9		12.3		3	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: Selected SVOAs in water by SIM
Batch number: 10304WAZ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6125241	102	97	105
6125242	97	98	87
Blank	90	102	122
LCS	108	108	109
LCSD	93	97	92
Limits:	40-130	45-130	45-135

Analysis Name: TCL SW846 Semivolatiles Soil
Batch number: 10305SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6125238	88	92	88	88	98	92
6125239	88	92	88	87	94	83

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

Surrogate Quality Control

6125240	86	89	92	89	98	89
Blank	84	89	91	84	93	88
LCS	90	93	95	88	93	89
MS	83	88	90	85	94	85
MSD	86	94	89	87	94	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: TCL SW846 Semivolatiles/Waters
Batch number: 10306WAH026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6125241	47	27	97	88	94	88
6125242	48	28	67	87	90	89
Blank	53	31	97	87	89	84
LCS	60	36	95	80	85	81
LCSD	60	37	94	79	85	73
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: Selected SVOAs in soil by SIM
Batch number: 10308SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6125238	99	71	69
6125239	101	83	90
6125240	94	69	61
Blank	92	80	101
LCS	90	77	101
MS	87	77	90
MSD	95	79	88
Limits:	40-130	45-130	45-135

Analysis Name: Herb water 8151A Master
Batch number: 103010017A

	2,4-Dichlorophenylacetic acid
6125241	90
6125242	87
Blank	85
LCS	97
LCSD	86
Limits:	35-144

Analysis Name: PCBs & PCTs in Water
Batch number: 103020013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6125241	101	91
6125242	101	92
Blank	92	74
LCS	91	72
LCSD	90	70

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1218506
Reported: 12/06/10 at 04:05 PM

Surrogate Quality Control

Limits: 30-150 30-150

Analysis Name: OC Pesticides in Water
Batch number: 103060020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6125241	76	162*
6125242	95	115
Blank	104	105
LCS	86	99
LCSD	100	105
Limits:	60-140	20-120

Analysis Name: PCBs & PCTs in Soil
Batch number: 103080005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6125238	50*	49*
6125239	91	79
6125240	47*	37*
Blank	87	93
LCS	90	101
LCSD	88	96
MS	97	97
MSD	91	92
Limits:	53-139	53-142

Analysis Name: OC Pesticides in Solids
Batch number: 103090008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6125238	87	143*
6125239	82	166*
6125240	143*	536*
Blank	80	192*
LCS	73	170*
MS	73	127*
MSD	35*	52
Limits:	50-130	20-120

Analysis Name: Herbicide soils 8151A Master
Batch number: 103090019A

	2,4-Dichlorophenylacetic acid
6125238	31*
6125239	100
6125240	130
Blank	79
LCS	87
MS	27*
MSD	30*
Limits:	36-156

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Quality Control Summary

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Reported: 12/06/10 at 04:05 PM

Surrogate Quality Control

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13013 1218506 6125238-42

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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
Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	Perchlorate EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015B	Other Instructions and Notes
SL073-SA5C-SS-0.0-0.5	10.27.10	1025	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL142-SA5C-SS-0.0-0.5	10.27.10	0935	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
SL114-SA5C-SS-0.0-0.5	10.27.10	0850	soil	none	1 - 16oz jar and 1 brass sleeve			√	√		√	√	√	√	√	√	√	√										SVOC analysis from sleeve
EB03-SA5C-102710	10.27.10	1145	water	none	1 - 500 ml plastic							√	√			√												SVOC analysis from sleeve
EB03-SA5C-102710	10.27.10	1145	water	HNO3	1 - 500 ml plastic						√																	SVOC analysis from sleeve
FB03-SA5C-102710	10.27.10	1130	water	HNO3	1 - 500 ml plastic						√																	SVOC analysis from sleeve
FB03-SA5C-102710	10.27.10	1130	water	none	1 - 500 ml plastic							√	√			√												

Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Laboratory:
	10/27/10 1430				10/28/10 0850		Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Airbill No.**	
Fed Ex							

13013 1218506 6125238-42

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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
Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	Perchlorate EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
EB03-SA5C-102710	10.27.10	1145	water	none	9 - 1L Amber Glass			√	√					√	√		√	√										

Relinquished by: (*Signature*)	Date/Time	Relinquished by: (*Signature*)	Date/Time	Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/27/10 1430				10/28/10 0850		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Received by: (*Signature*)**	**Date/Time**	**Received by: (*Signature*)**	**Date/Time**	**Airbill No.**	
FedEx							

13013 121 8506 W25238-42

CHAIN OF CUSTODY RECORD

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

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
Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	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	*Pesticides EPA 8081A	*Herbicides EPA 8151	Perchlorate EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	** Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015	Other Instructions and Notes
FB03-SA5C-102710	10.27.10	1130	water	none	9 - 1L Amber Glass			√	√					√	√		√	√										

Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Laboratory:
	10/29/10 1430				10/28/10 0850		Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Airbill No.**	
FedEx							

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ 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

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

Inorganic Qualifiers

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

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

Analysis Report

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 01, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/02/2010
Group Number: 1219157
SDG: DE006
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-125-SA5C-SB-4.0-6.0 Soil	6128965
SL-125-SA5C-SB-7.0-9.0 Soil	6128966
SL-127-SA5C-SB-7.5-8.5 Soil	6128967
SL-127-SA5C-SB-4.0-5.0 Soil	6128968
FB04-SA5C-110110 Water	6128969
EB04-SA5C-110110 Water	6128970
TB-110110 Water	6128971

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

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

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-125-SA5C-SB-4.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-4.0-6.0

LLI Sample # SW 6128965
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:00

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12546 SDG#: DE006-01

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	6.9	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	0.14	U	0.14	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	0.75	J	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	0.14	U	0.14	4.1	0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	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	0.14	U	0.14	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	15		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-125-SA5C-SB-4.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-4.0-6.0

LLI Sample # SW 6128965
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:00

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12546 SDG#: DE006-01

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	0.10	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	0.11	J	0.08	4.1	0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	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**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.9	U	6.9	21	31.02
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	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-125-SA5C-SB-4.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-4.0-6.0

LLI Sample # SW 6128965
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:00

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12546 SDG#: DE006-01

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	19	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	6.7	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	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	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	1.8	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-125-SA5C-SB-4.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-4.0-6.0

LLI Sample # SW 6128965
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:00

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12546 SDG#: DE006-01

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	0.74	U	0.74	1.8	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	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	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.						
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	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	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	24,300		5.47	21.8	1
07914	Boron	7440-42-8	18.7		0.968	5.44	1
01650	Calcium	7440-70-2	5,080		6.67	21.8	1
01654	Iron	7439-89-6	28,500		5.13	21.8	1
01656	Lithium	7439-93-2	25.9		0.24	2.2	1
01657	Magnesium	7439-95-4	6,270		2.76	10.9	1
06958	Manganese	7439-96-5	266		0.0849	0.544	1
10145	Phosphorus	7723-14-0	255		0.609	10.9	1
01662	Potassium	7440-09-7	2,660		19.6	54.4	1
01667	Sodium	7440-23-5	225		40.6	109	1
07968	Strontium	7440-24-6	32.9		0.0675	0.544	1
06969	Tin	7440-31-5	2.55	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,480		2.07	5.44	5
10146	Zirconium	7440-67-7	5.95		0.914	5.44	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.215	J	0.0653	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	5.84		0.0653	0.435	2
06126	Barium	7440-39-3	123		0.118	0.435	2
06127	Beryllium	7440-41-7	0.702		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.0934	J	0.0392	0.109	2

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

Sample Description: **SL-125-SA5C-SB-4.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-4.0-6.0

LLI Sample # SW 6128965
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:00

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12546 SDG#: DE006-01

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	27.8	0.131	0.435	2
06132	Cobalt	7440-48-4	6.17	0.0218	0.109	2
06133	Copper	7440-50-8	11.4	0.0718	0.435	2
06135	Lead	7439-92-1	7.29	0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.342	0.0544	0.109	2
06139	Nickel	7440-02-0	14.0	0.109	0.435	2
06141	Selenium	7782-49-2	0.0509 J	0.0435	0.435	2
06142	Silver	7440-22-4	0.0418 J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.256	0.0326	0.109	2
06148	Vanadium	7440-62-2	52.0	0.0239	0.109	2
06149	Zinc	7440-66-6	53.8	0.609	3.26	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085 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	3.9	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	14.7 J	10	33.3	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.	458	10.0	10.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH	n.a.	7.47	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture CDM	n.a.	9.9	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-125-SA5C-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-125-SA5C-SB-4.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-4.0-6.0

LLI Sample # SW 6128965
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:00

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12546 SDG#: DE006-01

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	B103091AA	11/05/2010 18:43	Chelsea B Eastep	0.93
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 14:26	Jason M Long	31.02
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030722812	11/03/2010 01:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030722812	11/03/2010 01:52	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030722812	11/03/2010 01:52	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030722812	11/03/2010 01:44	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10308SLB026	11/14/2010 22:48	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/21/2010 23:44	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 19:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103065708003	11/11/2010 22:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103065708003	11/11/2010 23:10	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103065708003	11/11/2010 04:50	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06126	Barium	SW-846 6020	1	103061026001D	11/06/2010 11:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06131	Chromium	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06133	Copper	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06135	Lead	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103061026001C	11/06/2010 11:39	David K Beck	2
06139	Nickel	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06141	Selenium	SW-846 6020	1	103061026001B	11/06/2010 11:39	David K Beck	2
06142	Silver	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06145	Thallium	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
06149	Zinc	SW-846 6020	1	103061026001A	11/06/2010 11:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	103065711002	11/03/2010 19:14	Nelli S Markaryan	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-125-SA5C-SB-4.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-4.0-6.0

LLI Sample # SW 6128965
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:00

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12546 SDG#: DE006-01

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	103065708003	11/02/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103061026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103065711002	11/02/2010 22:10	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 21:26	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201A	11/19/2010 17:26	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 11:28	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201A	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10313182101A	11/09/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10306039403A	11/02/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162401B	11/04/2010 10:24	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA5C-SB-7.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-7.0-9.0

LLI Sample # SW 6128966
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:15

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12579 SDG#: DE006-02

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	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
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

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

Sample Description: SL-125-SA5C-SB-7.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-7.0-9.0

LLI Sample # SW 6128966
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:15

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12579 SDG#: DE006-02

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	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	0.73	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	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	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
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

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

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-125-SA5C-SB-7.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-7.0-9.0

LLI Sample # SW 6128966
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:15

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12579 SDG#: DE006-02

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	17,100		5.27	21.0	1
07914	Boron	7440-42-8	12.7		0.933	5.24	1
01650	Calcium	7440-70-2	5,480		6.43	21.0	1
01654	Iron	7439-89-6	24,300		4.94	21.0	1
01656	Lithium	7439-93-2	31.1		0.23	2.1	1
01657	Magnesium	7439-95-4	5,510		2.66	10.5	1
06958	Manganese	7439-96-5	302		0.0818	0.524	1
10145	Phosphorus	7723-14-0	363		0.587	10.5	1
01662	Potassium	7440-09-7	2,390		18.9	52.4	1
01667	Sodium	7440-23-5	190		39.1	105	1
07968	Strontium	7440-24-6	23.5		0.0650	0.524	1
06969	Tin	7440-31-5	2.49	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,380		1.99	5.24	5
10146	Zirconium	7440-67-7	4.34	J	0.881	5.24	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0995	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	5.87		0.0635	0.424	2
06126	Barium	7440-39-3	69.6		0.114	0.424	2
06127	Beryllium	7440-41-7	0.566		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.0917	J	0.0381	0.106	2
06131	Chromium	7440-47-3	22.5		0.127	0.424	2
06132	Cobalt	7440-48-4	6.14		0.0212	0.106	2
06133	Copper	7440-50-8	10.3		0.0699	0.424	2
06135	Lead	7439-92-1	5.43		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.313		0.0529	0.106	2
06139	Nickel	7440-02-0	14.1		0.106	0.424	2
06141	Selenium	7782-49-2	0.0424	U	0.0424	0.424	2
06142	Silver	7440-22-4	0.0183	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.275		0.0318	0.106	2
06148	Vanadium	7440-62-2	40.4		0.0233	0.106	2
06149	Zinc	7440-66-6	51.1		0.593	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	2.7		0.87	1.1	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		**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-125-SA5C-SB-7.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-7.0-9.0

LLI Sample # SW 6128966
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:15

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12579 SDG#: DE006-02

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.	391	10.0	10.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH	n.a.	8.31	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

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	10308SLB026	11/14/2010 23:15	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/22/2010 00:14	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 19:20	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103065708003	11/11/2010 23:39	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103065708003	11/11/2010 23:43	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103065708003	11/11/2010 05:10	Tara L Snyder	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA5C-SB-7.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5C-SB-7.0-9.0

LLI Sample # SW 6128966
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 11:15

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12579 SDG#: DE006-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06126	Barium	SW-846 6020	1	103061026001D	11/06/2010 11:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06131	Chromium	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06133	Copper	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06135	Lead	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103061026001C	11/11/2010 21:33	David K Beck	2
06139	Nickel	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06141	Selenium	SW-846 6020	1	103061026001B	11/06/2010 11:57	David K Beck	2
06142	Silver	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06145	Thallium	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
06149	Zinc	SW-846 6020	1	103061026001A	11/06/2010 11:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	103065711002	11/03/2010 19:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103065708003	11/02/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103061026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103065711002	11/02/2010 22:10	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 21:41	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201A	11/19/2010 17:50	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 11:35	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201A	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10313182101B	11/09/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10306039403A	11/02/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162401B	11/04/2010 10:24	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA5C-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-7.5-8.5

LLI Sample # SW 6128967
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:52

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12775 SDG#: DE006-03

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	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	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	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	530	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
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	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	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-127-SA5C-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-7.5-8.5

LLI Sample # SW 6128967
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:52

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12775 SDG#: DE006-03

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	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	6.9	J	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

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

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.

Sample Description: **SL-127-SA5C-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-7.5-8.5

LLI Sample # SW 6128967
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:52

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12775 SDG#: DE006-03

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	14,500		5.16	20.5	1
07914	Boron	7440-42-8	12.2		0.913	5.13	1
01650	Calcium	7440-70-2	3,500		6.29	20.5	1
01654	Iron	7439-89-6	25,300		4.83	20.5	1
01656	Lithium	7439-93-2	23.3		0.23	2.1	1
01657	Magnesium	7439-95-4	4,440		2.61	10.3	1
06958	Manganese	7439-96-5	177		0.0800	0.513	1
10145	Phosphorus	7723-14-0	388		0.575	10.3	1
01662	Potassium	7440-09-7	2,130		18.5	51.3	1
01667	Sodium	7440-23-5	443		38.3	103	1
07968	Strontium	7440-24-6	19.9		0.0636	0.513	1
06969	Tin	7440-31-5	2.46	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,410		1.95	5.13	5
10146	Zirconium	7440-67-7	3.14	J	0.862	5.13	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0951	J	0.0616	0.205	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	5.95		0.0616	0.410	2
06126	Barium	7440-39-3	66.0		0.111	0.410	2
06127	Beryllium	7440-41-7	0.514		0.0164	0.103	2
06128	Cadmium	7440-43-9	0.0376	J	0.0369	0.103	2
06131	Chromium	7440-47-3	16.3		0.123	0.410	2
06132	Cobalt	7440-48-4	3.88		0.0205	0.103	2
06133	Copper	7440-50-8	7.38		0.0677	0.410	2
06135	Lead	7439-92-1	5.23		0.0107	0.205	2
06138	Molybdenum	7439-98-7	0.302		0.0513	0.103	2
06139	Nickel	7440-02-0	9.69		0.103	0.410	2
06141	Selenium	7782-49-2	0.0554	J	0.0410	0.410	2
06142	Silver	7440-22-4	0.0309	J	0.0123	0.103	2
06145	Thallium	7440-28-0	0.242		0.0308	0.103	2
06148	Vanadium	7440-62-2	32.2		0.0226	0.103	2
06149	Zinc	7440-66-6	51.9		0.575	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	4.6		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	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.21	U	0.21	1.1	1

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

Sample Description: **SL-127-SA5C-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-7.5-8.5

LLI Sample # SW 6128967
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:52

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12775 SDG#: DE006-03

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.	402	10.0	10.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH	n.a.	8.52	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture CDM	n.a.	6.3	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	10308SLB026	11/14/2010 23:42	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/22/2010 00:45	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 19:39	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103065708003	11/11/2010 23:46	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103065708003	11/11/2010 23:50	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103065708003	11/11/2010 05:21	Tara L Snyder	1

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

Sample Description: SL-127-SA5C-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-7.5-8.5

LLI Sample # SW 6128967
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:52

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12775 SDG#: DE006-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06125	Arsenic	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06126	Barium	SW-846 6020	1	103061026001D	11/06/2010 12:01	David K Beck	2
06127	Beryllium	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06128	Cadmium	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06131	Chromium	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06132	Cobalt	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06133	Copper	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06135	Lead	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103061026001C	11/11/2010 21:34	David K Beck	2
06139	Nickel	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06141	Selenium	SW-846 6020	1	103061026001B	11/06/2010 12:01	David K Beck	2
06142	Silver	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06145	Thallium	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06148	Vanadium	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
06149	Zinc	SW-846 6020	1	103061026001A	11/06/2010 12:01	David K Beck	2
00159	Mercury	SW-846 7471A	1	103065711002	11/03/2010 19:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103065708003	11/02/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103061026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103065711002	11/02/2010 22:10	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 21:56	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201A	11/19/2010 18:14	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 11:49	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201A	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10313182101B	11/09/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10306039403A	11/02/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162401B	11/04/2010 10:24	William C Schwebel	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-127-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-4.0-5.0

LLI Sample # SW 6128968
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:48

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12750 SDG#: DE006-04

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	6.9	U	6.9	8.2	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	8.2	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	0.16	U	0.16	4.1	0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	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	0.60	J	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	0.14	U	0.14	4.1	0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1	0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1	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	0.17	U	0.17	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	0.16	U	0.16	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	0.15	U	0.15	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	0.19	U	0.19	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	0.17	U	0.17	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	0.17	U	0.17	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	0.16	U	0.16	4.1	0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	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	0.51	U	0.51	5.1	0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1	0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2	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	8.2	0.93
06192	Methylene Chloride	75-09-2	14		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-127-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-4.0-5.0

LLI Sample # SW 6128968
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:48

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12750 SDG#: DE006-04

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	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	0.08	U	0.08	4.1	0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1	0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	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	0.15	U	0.15	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	0.17	U	0.17	4.1	0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1	0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14	21.08
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

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

Sample Description: SL-127-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-4.0-5.0

LLI Sample # SW 6128968
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:48

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12750 SDG#: DE006-04

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	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-127-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-4.0-5.0

LLI Sample # SW 6128968
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:48

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12750 SDG#: DE006-04

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	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	28,400		5.42	21.5	1
07914	Boron	7440-42-8	17.2		0.959	5.39	1
01650	Calcium	7440-70-2	8,190		6.60	21.5	1
01654	Iron	7439-89-6	30,600		25.4	108	5
01656	Lithium	7439-93-2	40.7		0.24	2.2	1
01657	Magnesium	7439-95-4	6,170		2.74	10.8	1
06958	Manganese	7439-96-5	236		0.0840	0.539	1
10145	Phosphorus	7723-14-0	155		0.603	10.8	1
01662	Potassium	7440-09-7	2,640		19.4	53.9	1
01667	Sodium	7440-23-5	662		40.2	108	1
07968	Strontium	7440-24-6	36.2		0.0668	0.539	1
06969	Tin	7440-31-5	2.96	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,600		2.05	5.39	5
10146	Zirconium	7440-67-7	4.88	J	0.905	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.161	J	0.0640	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	8.39		0.0640	0.427	2
06126	Barium	7440-39-3	129		0.115	0.427	2
06127	Beryllium	7440-41-7	0.855		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.0707	J	0.0384	0.107	2
06131	Chromium	7440-47-3	25.9		0.128	0.427	2
06132	Cobalt	7440-48-4	7.68		0.0213	0.107	2
06133	Copper	7440-50-8	12.0		0.0704	0.427	2

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

Sample Description: SL-127-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-4.0-5.0

LLI Sample # SW 6128968
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:48

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12750 SDG#: DE006-04

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**	
06135	Lead	7439-92-1	9.37		0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.504		0.0533	0.107	2
06139	Nickel	7440-02-0	14.4		0.107	0.427	2
06141	Selenium	7782-49-2	0.0662	J	0.0427	0.427	2
06142	Silver	7440-22-4	0.0248	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.291		0.0320	0.107	2
06148	Vanadium	7440-62-2	50.7		0.0235	0.107	2
06149	Zinc	7440-66-6	56.8		0.597	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0038	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	10.6		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	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	419		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.	7.93		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	9.0		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-127-SA5C-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-127-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-4.0-5.0

LLI Sample # SW 6128968
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:48

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12750 SDG#: DE006-04

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	B103091AA	11/05/2010 14:52	Chelsea B Eastep	0.93
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 14:46	Jason M Long	21.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030722812	11/03/2010 01:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030722812	11/03/2010 01:52	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030722812	11/03/2010 01:52	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030722812	11/03/2010 01:48	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10308SLB026	11/15/2010 00:09	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/22/2010 01:16	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 19:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103065708003	11/11/2010 23:54	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103065708003	11/11/2010 23:58	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103065708003	11/11/2010 23:58	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103065708003	11/11/2010 05:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06126	Barium	SW-846 6020	1	103061026001D	11/06/2010 12:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06131	Chromium	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06133	Copper	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06135	Lead	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	103061026001C	11/06/2010 12:10	David K Beck	2
06139	Nickel	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06141	Selenium	SW-846 6020	1	103061026001B	11/06/2010 12:10	David K Beck	2
06142	Silver	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06145	Thallium	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
06149	Zinc	SW-846 6020	1	103061026001A	11/06/2010 12:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	103065711002	11/03/2010 19:21	Nelli S Markaryan	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-127-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5C-SB-4.0-5.0

LLI Sample # SW 6128968
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 14:48

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

12750 SDG#: DE006-04

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	103065708003	11/02/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103061026001	11/05/2010 15:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103065711002	11/02/2010 22:10	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 22:11	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201A	11/19/2010 18:38	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 12:03	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201A	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	2	10313182101B	11/09/2010 11:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10306039403A	11/02/2010 12:45	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162401B	11/04/2010 10:24	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **FB04-SA5C-110110 Water**
SSFL Area IV Collocated Soil Sampling
FB04-SA5C-110110

LLI Sample # WW 6128969
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 15:20

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CEB04 SDG#: DE006-05FB

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	19	U	19	57	1
04678	Benzoic acid	65-85-0	6	U	6	14	1
04678	Benzyl alcohol	100-51-6	5	U	5	14	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	14	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
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	14	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	14	1
04678	Phenol	108-95-2	1	U	1	5	1

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

Sample Description: **FB04-SA5C-110110 Water**
SSFL Area IV Collocated Soil Sampling
FB04-SA5C-110110

LLI Sample # WW 6128969
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 15:20

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CEB04 SDG#: DE006-05FB

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	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	0.0095	U	0.0095	0.048	1
10137	Acenaphthylene	208-96-8	0.0095	U	0.0095	0.048	1
10137	Anthracene	120-12-7	0.0095	U	0.0095	0.048	1
10137	Benzo(a)anthracene	56-55-3	0.0095	U	0.0095	0.048	1
10137	Benzo(a)pyrene	50-32-8	0.0095	U	0.0095	0.048	1
10137	Benzo(b)fluoranthene	205-99-2	0.0095	U	0.0095	0.048	1
10137	Benzo(g,h,i)perylene	191-24-2	0.0095	U	0.0095	0.048	1
10137	Benzo(k)fluoranthene	207-08-9	0.0095	U	0.0095	0.048	1
10137	Butylbenzylphthalate	85-68-7	0.048	U	0.048	0.95	1
10137	Di-n-butylphthalate	84-74-2	0.17	J	0.048	0.95	1
10137	Chrysene	218-01-9	0.0095	U	0.0095	0.048	1
10137	Dibenz(a,h)anthracene	53-70-3	0.0095	U	0.0095	0.048	1
10137	Diethylphthalate	84-66-2	0.11	J	0.048	0.95	1
10137	Dimethylphthalate	131-11-3	0.048	U	0.048	0.95	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.17	J	0.048	0.95	1
10137	Fluoranthene	206-44-0	0.0095	U	0.0095	0.048	1
10137	Fluorene	86-73-7	0.0095	U	0.0095	0.048	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0095	U	0.0095	0.048	1
10137	1-Methylnaphthalene	90-12-0	0.0095	U	0.0095	0.048	1
10137	2-Methylnaphthalene	91-57-6	0.0095	U	0.0095	0.048	1
10137	Naphthalene	91-20-3	0.047	J	0.0095	0.048	1
10137	N-Nitrosodimethylamine	62-75-9	0.0095	U	0.0095	0.048	1
10137	Di-n-octylphthalate	117-84-0	0.091	J	0.048	0.95	1
10137	Phenanthrene	85-01-8	0.0095	U	0.0095	0.048	1
10137	Pyrene	129-00-0	0.0095	U	0.0095	0.048	1

The following compounds were detected in the method blank at the respective concentrations of:
diethylphthalate .012 ug/l
di-n-butylphthalate .051 ug/l
bis(2-ethylhexyl)phthalate .10 ug/l
di-n-octylphthalate .055 ug/l
These blank values were not subtracted from the analytical results.

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	0.096	U	0.096	0.48	1
10227	Aroclor 5442	12642-23-8	0.096	U	0.096	0.48	1
10227	Aroclor 5460	11126-42-4	0.096	U	0.096	0.48	1
10227	PCB-1016	12674-11-2	0.096	U	0.096	0.48	1
10227	PCB-1221	11104-28-2	0.096	U	0.096	0.48	1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.48	1
10227	PCB-1242	53469-21-9	0.096	U	0.096	0.48	1

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

Sample Description: **FB04-SA5C-110110 Water**
SSFL Area IV Collocated Soil Sampling
FB04-SA5C-110110

LLI Sample # WW 6128969
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 15:20

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CEB04 SDG#: DE006-05FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	PCB-1248	12672-29-6	0.096	U	0.096	0.48	1
10227	PCB-1254	11097-69-1	0.096	U	0.096	0.48	1
10227	PCB-1260	11096-82-5	0.096	U	0.096	0.48	1
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.48	1
10227	PCB-1268	11100-14-4	0.15	U	0.15	0.48	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
Due to an error during the preparation of the sample, only a LCS/LCSD was prepped with Aroclor 5442. There was no LCS/LCSD prepared with PCB-1016 and PCB-1260. A reextraction was performed outside the sample hold time. All QC is present in the reextraction. Similar results were obtained in both extractions. The client was notified and the original extraction data is reported.

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **FB04-SA5C-110110 Water**
SSFL Area IV Collocated Soil Sampling
FB04-SA5C-110110

LLI Sample # WW 6128969
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 15:20

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CEB04 SDG#: DE006-05FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry	**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
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10306WAH026	11/15/2010 04:11	Florida A Cimino	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10308WAE026	11/23/2010 02:28	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10306WAH026	11/02/2010 22:30	Karen L Beyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10308WAE026	11/04/2010 14:15	Timothy J Attenberger	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103090016A	11/11/2010 16:13	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103090016A	11/06/2010 06:15	David V Hershey Jr	1
01743	Aluminum	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
08068	Strontium	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103081848005	11/16/2010 08:29	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103081848005	11/05/2010 22:20	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06025	Arsenic	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06026	Barium	SW-846 6020	1	103086050004D	11/12/2010 02:19	David K Beck	1
06027	Beryllium	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06028	Cadmium	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06031	Chromium	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06032	Cobalt	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06033	Copper	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06035	Lead	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06038	Molybdenum	SW-846 6020	1	103086050004C	11/12/2010 02:19	David K Beck	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: FB04-SA5C-110110 Water
SSFL Area IV Collocated Soil Sampling
FB04-SA5C-110110

LLI Sample # WW 6128969
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 15:20

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CEB04 SDG#: DE006-05FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06039	Nickel	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06041	Selenium	SW-846 6020	1	103086050004B	11/12/2010 02:19	David K Beck	1
06042	Silver	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06045	Thallium	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06048	Vanadium	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
06049	Zinc	SW-846 6020	1	103086050004A	11/12/2010 02:19	David K Beck	1
00259	Mercury	SW-846 7470A	1	103095713002	11/08/2010 08:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103081848005	11/05/2010 09:28	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103086050004	11/05/2010 09:25	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103095713002	11/05/2010 16:40	Nelli S Markaryan	1
06467	Hexavalent Chromium (water)	SW-846 7199	1	10306621301A	11/02/2010 11:17	William L Hamaker Jr	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **EB04-SA5C-110110 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5C-110110

LLI Sample # WW 6128970
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 15:45

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CFB04 SDG#: DE006-06EB

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	19	U	19	57	1
04678	Benzoic acid	65-85-0	6	U	6	14	1
04678	Benzyl alcohol	100-51-6	5	U	5	14	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	14	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
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	14	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	14	1
04678	Phenol	108-95-2	1	U	1	5	1

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

Sample Description: **EB04-SA5C-110110 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5C-110110

LLI Sample # WW 6128970
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 15:45

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CFB04 SDG#: DE006-06EB

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	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	0.0095	U	0.0095	0.048	1
10137	Acenaphthylene	208-96-8	0.0095	U	0.0095	0.048	1
10137	Anthracene	120-12-7	0.0095	U	0.0095	0.048	1
10137	Benzo(a)anthracene	56-55-3	0.0095	U	0.0095	0.048	1
10137	Benzo(a)pyrene	50-32-8	0.0095	U	0.0095	0.048	1
10137	Benzo(b)fluoranthene	205-99-2	0.0095	U	0.0095	0.048	1
10137	Benzo(g,h,i)perylene	191-24-2	0.0095	U	0.0095	0.048	1
10137	Benzo(k)fluoranthene	207-08-9	0.0095	U	0.0095	0.048	1
10137	Butylbenzylphthalate	85-68-7	0.048	U	0.048	0.95	1
10137	Di-n-butylphthalate	84-74-2	0.48	J	0.048	0.95	1
10137	Chrysene	218-01-9	0.0095	U	0.0095	0.048	1
10137	Dibenz(a,h)anthracene	53-70-3	0.0095	U	0.0095	0.048	1
10137	Diethylphthalate	84-66-2	0.19	J	0.048	0.95	1
10137	Dimethylphthalate	131-11-3	0.048	U	0.048	0.95	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.095	J	0.048	0.95	1
10137	Fluoranthene	206-44-0	0.0095	U	0.0095	0.048	1
10137	Fluorene	86-73-7	0.0095	U	0.0095	0.048	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0095	U	0.0095	0.048	1
10137	1-Methylnaphthalene	90-12-0	0.0095	U	0.0095	0.048	1
10137	2-Methylnaphthalene	91-57-6	0.011	J	0.0095	0.048	1
10137	Naphthalene	91-20-3	0.13		0.0095	0.048	1
10137	N-Nitrosodimethylamine	62-75-9	0.0095	U	0.0095	0.048	1
10137	Di-n-octylphthalate	117-84-0	0.048	U	0.048	0.95	1
10137	Phenanthrene	85-01-8	0.0095	U	0.0095	0.048	1
10137	Pyrene	129-00-0	0.0095	U	0.0095	0.048	1

The following compounds were detected in the method blank at the respective concentrations of:
diethylphthalate .012 ug/l
di-n-butylphthalate .051 ug/l
bis(2-ethylhexyl)phthalate .10 ug/l
These blank values were not subtracted from the analytical results.

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	0.096	U	0.096	0.48	1
10227	Aroclor 5442	12642-23-8	0.096	U	0.096	0.48	1
10227	Aroclor 5460	11126-42-4	0.096	U	0.096	0.48	1
10227	PCB-1016	12674-11-2	0.096	U	0.096	0.48	1
10227	PCB-1221	11104-28-2	0.096	U	0.096	0.48	1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.48	1
10227	PCB-1242	53469-21-9	0.096	U	0.096	0.48	1
10227	PCB-1248	12672-29-6	0.096	U	0.096	0.48	1

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

Sample Description: **EB04-SA5C-110110 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5C-110110

LLI Sample # WW 6128970
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 15:45

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CFB04 SDG#: DE006-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	PCB-1254	11097-69-1	0.096	U	0.096	0.48	1
10227	PCB-1260	11096-82-5	0.096	U	0.096	0.48	1
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.48	1
10227	PCB-1268	11100-14-4	0.15	U	0.15	0.48	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
Due to an error during the preparation of the sample, only a LCS/LCSD was prepped with Aroclor 5442. There was no LCS/LCSD prepared with PCB-1016 and PCB-1260. Also the DCB surrogate is outside the QC limits. A reextraction was performed outside the sample hold time. All QC is present in the reextraction and are within the QC limits. Similar results were obtained in both extractions. The client was notified and the original extraction data is reported.

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **EB04-SA5C-110110 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5C-110110

LLI Sample # WW 6128970
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 15:45

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CFB04 SDG#: DE006-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry	**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
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10306WAH026	11/15/2010 04:38	Florida A Cimino	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	10308WAE026	11/23/2010 03:01	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10306WAH026	11/02/2010 22:30	Karen L Beyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10308WAE026	11/04/2010 14:15	Timothy J Attenberger	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103090016A	11/11/2010 16:31	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103090016A	11/06/2010 06:15	David V Hershey Jr	1
01743	Aluminum	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
08068	Strontium	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103081848005	11/16/2010 08:33	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103081848005	11/05/2010 22:23	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06025	Arsenic	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06026	Barium	SW-846 6020	1	103086050004D	11/12/2010 02:22	David K Beck	1
06027	Beryllium	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06028	Cadmium	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06031	Chromium	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06032	Cobalt	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06033	Copper	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06035	Lead	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06038	Molybdenum	SW-846 6020	1	103086050004C	11/12/2010 02:22	David K Beck	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: EB04-SA5C-110110 Water
SSFL Area IV Collocated Soil Sampling
EB04-SA5C-110110

LLI Sample # WW 6128970
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 15:45

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CFB04 SDG#: DE006-06EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06039	Nickel	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06041	Selenium	SW-846 6020	1	103086050004B	11/12/2010 02:22	David K Beck	1
06042	Silver	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06045	Thallium	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06048	Vanadium	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
06049	Zinc	SW-846 6020	1	103086050004A	11/12/2010 02:22	David K Beck	1
00259	Mercury	SW-846 7470A	1	103095713002	11/08/2010 08:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103081848005	11/05/2010 09:28	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103086050004	11/05/2010 09:25	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103095713002	11/05/2010 16:40	Nelli S Markaryan	1
06467	Hexavalent Chromium (water)	SW-846 7199	1	10306621301A	11/02/2010 11:31	William L Hamaker Jr	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: TB-110110 Water
SSFL Area IV Collocated Soil Sampling
TB-110110

LLI Sample # WW 6128971
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 16:30

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CTB04 SDG#: DE006-07TB*

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **TB-110110 Water**
SSFL Area IV Collocated Soil Sampling
TB-110110

LLI Sample # WW 6128971
LLI Group # 1219157
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2010 16:30

Submitted: 11/02/2010 09:00
Reported: 12/01/2010 16:51

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

CTB04 SDG#: DE006-07TB*

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	VOCs in Water 8260B	SW-846 8260B	1	Y103121AA	11/08/2010 18:56	Frank A Valla, Jr	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103091AA	11/05/2010 10:12	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103091AA	11/05/2010 10:12	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103121AA	11/08/2010 18:56	Frank A Valla, Jr	1

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

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: B103091AA	Sample number(s): 6128965,6128968									
Acetone	6.7	U	6.7	8.0	ug/kg	139		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	91		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	91		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	94		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	110		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	94		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	98		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	97		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103		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	108		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	81		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	97		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	108		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	97		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	72	68	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	100		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	93		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	94		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	103		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	114		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	94		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	109		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	89		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	94		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	84		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	82		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	114	113	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	90		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	89		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100		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. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	107		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	101		61-134		
Methylene Chloride	0.54	J	0.24	4.0	ug/kg	106		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	96		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	97		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	88		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	103		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	101		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	92		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	93		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	110		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	101		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	92		80-120		
Batch number: E103091AA	Sample number(s): 6128971									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101		60-132		
Batch number: E103111AA	Sample number(s): 6128965,6128968									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	104	70-130	4	30
Batch number: Y103121AA	Sample number(s): 6128971									
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

*- 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. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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: 10306WAH026	Sample number(s): 6128969-6128970									
Aniline	1	U	1.	5	ug/l	58	70	49-101	19	30
Benzidine	20	U	20.	60	ug/l	54	63	20-109	16	30
Benzoic acid	6	U	6.	15	ug/l	33	32	10-69	3	30
Benzyl alcohol	5	U	5.	15	ug/l	84	87	66-97	4	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	98	92	82-117	6	30
Carbazole	1	U	1.	5	ug/l	99	93	81-114	6	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	94	92	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	42	57	42-124	29	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	83	80	74-124	4	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	83	81	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	76	73	62-127	4	30
2-Chloronaphthalene	2	U	2.	5	ug/l	97	97	54-132	1	30
2-Chlorophenol	1	U	1.	5	ug/l	95	94	77-108	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	88	82-111	4	30
Dibenzofuran	1	U	1.	5	ug/l	89	87	83-108	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	69	69	67-108	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	65	64	63-110	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	67	67	65-113	1	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. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	60	68	49-111	13	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	97	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	95	95	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	97	93	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	93	90	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	88	88	64-120	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	93	89	81-115	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	90	92	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	94	90	78-116	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	98	90	81-118	9	30
Hexachlorobutadiene	1	U	1.	5	ug/l	70	69	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	59	60	10-118	3	30
Hexachloroethane	1	U	1.	5	ug/l	59	59	52-113	0	30
Isophorone	1	U	1.	5	ug/l	83	82	74-117	1	30
2-Methylphenol	1	U	1.	5	ug/l	85	84	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	79	80	61-103	0	30
2-Nitroaniline	1	U	1.	5	ug/l	94	95	83-116	0	30
3-Nitroaniline	1	U	1.	5	ug/l	92	92	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	73	72	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	84	83	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	99	102	86-120	4	30
4-Nitrophenol	10	U	10.	30	ug/l	46	46	16-78	0	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	80	75	69-110	6	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	96	91	67-136	5	30
Pentachlorophenol	3	U	3.	15	ug/l	100	100	53-110	1	30
Phenol	1	U	1.	5	ug/l	43	45	29-67	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	72	72	71-112	0	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	101	103	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	103	104	81-113	1	30

Batch number: 10308SLA026 Sample number(s): 6128965-6128968

Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		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	89		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	88		58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	90		63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	108		44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	82		66-137
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	120		65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		84-132
Chrysene	0.33	U	0.33	1.7	ug/kg	95		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	99		68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	100		70-130
Bis(2-Ethylhexyl)phthalate	6.3	J	6.0	18	ug/kg	124		67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	82		78-120
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		62-141
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		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	90		39-148
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		55-176
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120
Pyrene	0.67	U	0.67	1.7	ug/kg	115		56-121

Batch number: 10308SLB026 Sample number(s): 6128965-6128968

*- 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. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aniline	170 U		170.	500	ug/kg	58		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	33		15-121		
Benzoic acid	170 U		170.	500	ug/kg	103		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	30		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	80		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	76		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	96		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	92		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	81		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	68		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	95		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	81		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	75		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	92		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	92		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	93		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	92		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	88		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	78		68-105		
Isophorone	17	U	17.	170	ug/kg	87		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	87		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	88		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	91		35-106		
Phenol	17	U	17.	170	ug/kg	86		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	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10308WAE026	Sample number(s): 6128969-6128970									
Acenaphthene	0.010	U	0.010	0.050	ug/l	93	96	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	91	91	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	96	96	66-111	0	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	99	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	95	94	64-115	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	106	103	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	83	84	68-125	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	94	95	72-122	1	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	83	81	70-130	2	30
Di-n-butylphthalate	0.051	J	0.050	1.0	ug/l	96	97	70-130	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	99	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	83	83	71-125	0	30
Diethylphthalate	0.12	J	0.050	1.0	ug/l	100	99	70-130	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	72	73	70-130	1	30
Bis(2-Ethylhexyl)phthalate	0.10	J	0.050	1.0	ug/l	108	108	70-130	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	95	96	75-116	1	30
Fluorene	0.010	U	0.010	0.050	ug/l	99	100	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	85	85	69-124	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	101	100	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	88	88	75-115	0	30
Naphthalene	0.010	U	0.010	0.050	ug/l	95	93	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	54*	53*	70-130	2	30
Di-n-octylphthalate	0.055	J	0.050	1.0	ug/l	104	101	70-130	3	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	97	96	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	103	102	69-118	1	30
Batch number: 103080005A	Sample number(s): 6128965-6128968									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	78	71*	75-125	9	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		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	107		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: 103090016A	Sample number(s): 6128969-6128970									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	60*	70*	75-125	15	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l					
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					
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 103061026001A	Sample number(s): 6128965-6128968									
Antimony	0.0600	U	0.0600	0.200	mg/kg	115		11-208		

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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. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Arsenic	0.0600 U	0.0600	0.400	mg/kg	102		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	100		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	105		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	110		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.249 J	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0936 J	0.0104	0.200	mg/kg	104		80-120		
Nickel	0.107 J	0.100	0.400	mg/kg	106		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	104		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	103		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	94		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	105		78-122		
Batch number: 103061026001B	Sample number(s): 6128965-6128968								
Selenium	0.0400 U	0.0400	0.400	mg/kg	100		79-122		
Batch number: 103061026001C	Sample number(s): 6128965-6128968								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	113		78-122		
Batch number: 103061026001D	Sample number(s): 6128965-6128968								
Barium	0.108 U	0.108	0.400	mg/kg	103		79-121		
Batch number: 103065708003	Sample number(s): 6128965-6128968								
Aluminum	5.03 U	5.03	20.0	mg/kg	91		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	101		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	102		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	101		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	103		81-119		
Phosphorus	1.57 J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	103		78-110		
Sodium	37.3 U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.13 J	1.00	10.0	mg/kg	94		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	104		80-120		
Batch number: 103065711002	Sample number(s): 6128965-6128968								
Mercury	0.0028 U	0.0028	0.0975	mg/kg	103		88-123		
Batch number: 103081848005	Sample number(s): 6128969-6128970								
Aluminum	0.0834 U	0.0834	0.200	mg/l	101	100	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	94	93	90-110	1	20
Calcium	0.0702 U	0.0702	0.200	mg/l	102	102	90-112	0	20
Iron	0.0522 U	0.0522	0.200	mg/l	101	100	90-112	1	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	101	100	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	100	99	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	101	100	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	102	101	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	101	101	85-115	0	20
Sodium	0.433 U	0.433	1.00	mg/l	101	99	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	99	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	101	100	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	101	100	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	102	101	80-120	0	20
Batch number: 103086050004A	Sample number(s): 6128969-6128970								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Antimony	0.00030 U	0.00030	0.0010	mg/l	115*	114*	87-110	1	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	95	125*	86-111	27*	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	108	107	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	106	110	90-114	4	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	104	106	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	102	98	80-120	5	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	98	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	102	105	90-115	3	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	103	90-113	5	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	106	109	90-115	3	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	107	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	102	104	80-120	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	107	103	80-120	3	20
Batch number: 103086050004B	Sample number(s): 6128969-6128970								
Selenium	0.00025 U	0.00025	0.0020	mg/l	101	110	85-114	8	20
Batch number: 103086050004C	Sample number(s): 6128969-6128970								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	108	110	80-120	2	20
Batch number: 103086050004D	Sample number(s): 6128969-6128970								
Barium	0.00038 U	0.00038	0.0020	mg/l	100	111	88-113	10	20
Batch number: 103095713002	Sample number(s): 6128969-6128970								
Mercury	0.000056 U	0.00005 6	0.00020	mg/l	100	95	80-120	5	20
Batch number: 10306621301A	Sample number(s): 6128969-6128970								
Hexavalent Chromium (water)	5.0 U	5.0	10.0	ug/l	98	106	90-110	8	20
Batch number: 10315243201A	Sample number(s): 6128965-6128968								
Hexavalent Chromium by IC	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10315315201A	Sample number(s): 6128965-6128968								
Fluoride by IC (solid)	0.80 U	0.80	1.0	mg/kg	103		90-110		
Batch number: 10322322201A	Sample number(s): 6128965-6128968								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	107		85-115		
Batch number: 10306039403A	Sample number(s): 6128965-6128968								
pH					99		95-105		
Batch number: 10313182101A	Sample number(s): 6128965								
Oxidation Reduction Potential					98		98-102		
Batch number: 10313182101B	Sample number(s): 6128966-6128968								
Oxidation Reduction Potential					98		98-102		
Batch number: 10308162401B	Sample number(s): 6128965-6128968								
Moisture CDM					100		80-120		

Sample Matrix Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM
Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103091AA	Sample number(s): 6128965,6128968 UNSPK: P130715								
Acetone	211*	233*	15-210	20	30				
Benzene	95	91	55-143	6	30				
Bromobenzene	99	89	43-139	0	30				
Bromochloromethane	108	97	60-137	1	30				
Bromodichloromethane	98	95	53-136	6	30				
Bromoform	99	92	38-124	2	30				
Bromomethane	127	112	42-168	3	30				
2-Butanone	110	118	37-163	17	30				
n-Butylbenzene	96	83	30-146	4	30				
sec-Butylbenzene	98	87	33-157	2	30				
tert-Butylbenzene	98	88	41-152	1	30				
Carbon Tetrachloride	104	99	45-153	4	30				
Chlorobenzene	99	91	49-135	1	30				
Chloroethane	116	107	39-152	1	30				
2-Chloroethyl Vinyl Ether	86	81	32-139	4	30				
Chloroform	102	97	61-142	5	30				
Chloromethane	120	110	51-163	1	30				
2-Chlorotoluene	97	86	42-146	2	30				
4-Chlorotoluene	99	88	39-145	2	30				
1,2-Dibromo-3-chloropropane	95	83	30-139	5	30				
Dibromochloromethane	104	95	51-128	0	30				
1,2-Dibromoethane	101	92	54-129	1	30				
Dibromomethane	102	98	57-130	6	30				
1,2-Dichlorobenzene	98	86	36-133	3	30				
1,3-Dichlorobenzene	96	84	34-134	3	30				
1,4-Dichlorobenzene	96	85	35-136	4	30				
Dichlorodifluoromethane	101	87	26-151	6	30				
1,1-Dichloroethane	94	91	63-142	6	30				
1,2-Dichloroethane	106	102	68-131	6	30				
1,1-Dichloroethene	112	108	61-149	5	30				
cis-1,2-Dichloroethene	97	94	60-136	7	30				
trans-1,2-Dichloroethene	112	109	59-142	6	30				
1,2-Dichloropropane	94	92	62-135	7	30				
1,3-Dichloropropane	97	91	58-129	3	30				
2,2-Dichloropropane	103	100	53-147	7	30				
1,1-Dichloropropene	96	93	54-145	6	30				
cis-1,3-Dichloropropene	88	87	51-131	8	30				
trans-1,3-Dichloropropene	90	85	49-129	4	30				
Ethylbenzene	98	91	44-141	2	30				
Freon 113	118	112	56-156	4	30				
Hexachlorobutadiene	93	79	10-155	8	30				
2-Hexanone	104	109	32-160	15	30				
Isopropylbenzene	97	90	38-144	2	30				
p-Isopropyltoluene	99	88	29-152	2	30				
Methyl Tertiary Butyl Ether	115	111	55-129	6	30				
4-Methyl-2-pentanone	108	98	46-139	1	30				
Methylene Chloride	128	108	61-141	6	30				
n-Propylbenzene	98	90	39-157	2	30				
Styrene	101	92	35-134	0	30				
1,1,1,2-Tetrachloroethane	103	94	52-130	1	30				
1,1,2,2-Tetrachloroethane	97	87	40-152	1	30				
Tetrachloroethene	104	95	42-149	1	30				
Toluene	95	88	50-146	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,3-Trichlorobenzene	82	73	10-140	3	30				
1,2,4-Trichlorobenzene	78	71	10-136	1	30				
1,1,1-Trichloroethane	103	99	64-142	6	30				
1,1,2-Trichloroethane	101	93	54-139	1	30				
Trichloroethene	98	93	53-144	4	30				
Trichlorofluoromethane	139	120	47-163	5	30				
1,2,3-Trichloropropane	105	93	45-154	3	30				
1,2,4-Trimethylbenzene	100	89	37-149	2	30				
1,3,5-Trimethylbenzene	98	88	38-150	1	30				
Vinyl Chloride	118	105	50-154	2	30				
m+p-Xylene	106	95	44-137	1	30				
o-Xylene	95	88	42-137	2	30				
Batch number: E103091AA	Sample number(s): 6128971 UNSPK: P130634								
1,4-Dioxane	103	103	50-150	0	30				
Batch number: E103111AA	Sample number(s): 6128965,6128968 UNSPK: P130715								
1,4-Dioxane	99	96	70-130	3	30				
Batch number: 10308SLA026	Sample number(s): 6128965-6128968 UNSPK: P130715								
Acenaphthene	84	96	63-105	13	30				
Acenaphthylene	80	84	55-126	5	30				
Anthracene	82	88	46-136	8	30				
Benzo(a)anthracene	89	95	39-144	7	30				
Benzo(a)pyrene	82	85	34-156	4	30				
Benzo(b)fluoranthene	93	85	43-155	9	30				
Benzo(g,h,i)perylene	55	103	33-141	61*	30				
Benzo(k)fluoranthene	92	79	42-144	15	30				
Butylbenzylphthalate	110	118	73-140	7	30				
Di-n-butylphthalate	98	98	78-160	0	30				
Chrysene	90	97	29-156	8	30				
Dibenz(a,h)anthracene	69	99	41-130	36*	30				
Diethylphthalate	95	105	87-131	10	30				
Dimethylphthalate	95	99	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	143	126	39-167	11	30				
Fluoranthene	70	74	26-166	6	30				
Fluorene	84	88	45-121	5	30				
Indeno(1,2,3-cd)pyrene	64	99	21-143	42*	30				
1-Methylnaphthalene	85	87	72-123	3	30				
2-Methylnaphthalene	76	78	28-121	3	30				
Naphthalene	81	85	61-102	4	30				
N-Nitrosodimethylamine	86	98	48-113	13	30				
Di-n-octylphthalate	250*	89	40-192	83*	30				
Phenanthrene	84	90	12-165	7	30				
Pyrene	99	102	15-153	3	30				
Batch number: 10308SLB026	Sample number(s): 6128965-6128968 UNSPK: P130715								
Aniline	68	57	14-114	17	30				
Benzidine	23*	0*	35-141	200*	30				
Benzoic acid	80	61	10-173	28	30				
Benzyl alcohol	100	95	55-123	5	30				
4-Bromophenyl-phenylether	101	97	67-129	5	30				
Carbazole	97	95	64-120	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloro-3-methylphenol	90	90	53-130	1	30				
4-Chloroaniline	54	50	23-95	8	30				
bis(2-Chloroethoxy)methane	87	86	54-117	1	30				
bis(2-Chloroethyl)ether	86	82	60-116	5	30				
bis(2-Chloroisopropyl)ether	80	78	55-142	4	30				
2-Chloronaphthalene	107	112	50-141	5	30				
2-Chlorophenol	97	93	73-121	4	30				
4-Chlorophenyl-phenylether	91	92	64-119	1	30				
Dibenzofuran	91	93	71-112	2	30				
1,2-Dichlorobenzene	87	82	66-108	6	30				
1,3-Dichlorobenzene	84	79	63-109	6	30				
1,4-Dichlorobenzene	86	78	53-113	11	30				
3,3'-Dichlorobenzidine	78	74	25-123	5	30				
2,4-Dichlorophenol	93	94	78-117	2	30				
2,4-Dimethylphenol	92	93	56-130	1	30				
3,5-Dimethylphenol	95	95	70-130	0	30				
4,6-Dinitro-2-methylphenol	86	78	10-148	10	30				
2,4-Dinitrophenol	72	60	20-143	19	30				
2,4-Dinitrotoluene	90	91	57-114	1	30				
2,6-Dinitrotoluene	92	95	69-123	4	30				
1,2-Diphenylhydrazine	96	93	71-129	3	30				
bis(2-Ethylhexyl)phthalate	94	91	63-122	3	30				
Hexachlorobenzene	98	95	61-111	3	30				
Hexachlorobutadiene	87	88	62-120	1	30				
Hexachlorocyclopentadiene	85	85	10-153	0	30				
Hexachloroethane	82	78	57-109	5	30				
Isophorone	86	85	51-118	1	30				
2-Methylphenol	94	88	47-142	6	30				
4-Methylphenol	97	94	55-126	3	30				
2-Nitroaniline	95	97	67-125	2	30				
3-Nitroaniline	92	88	59-122	5	30				
4-Nitroaniline	74	79	52-112	7	30				
Nitrobenzene	87	87	51-114	0	30				
2-Nitrophenol	92	93	74-115	2	30				
4-Nitrophenol	93	92	39-133	0	30				
N-Nitroso-di-n-propylamine	85	81	60-116	5	30				
N-Nitrosodiphenylamine	100	96	86-145	4	30				
Pentachlorophenol	94	91	17-149	3	30				
Phenol	93	91	58-126	3	30				
1,2,4-Trichlorobenzene	88	87	72-115	2	30				
2,4,5-Trichlorophenol	96	98	34-139	2	30				
2,4,6-Trichlorophenol	99	103	49-140	4	30				
Batch number: 103080005A	Sample number(s): 6128965-6128968 UNSPK: P130715								
PCB-1016	91	86	29-146	5	50				
PCB-1260	109	104	39-149	5	50				
Batch number: 103061026001A	Sample number(s): 6128965-6128968 UNSPK: 6128965 BKG: 6128965								
Antimony	46*	54*	75-125	13	20	0.193 J	0.0673 J	97* (1)	20
Arsenic	87	96	75-125	3	20	5.26	5.20	1	20
Beryllium	78	81	75-125	2	20	0.633	0.608	4	20
Cadmium	101	104	75-125	3	20	0.0842 J	0.127	41* (1)	20
Chromium	91	77	75-125	4	20	25.1	23.5	6	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Cobalt	89	87	75-125	2	20	5.55	6.07	9	20
Copper	83	79	75-125	2	20	10.3	9.98	3	20
Lead	96	117	75-125	6	20	6.57	6.73	2	20
Nickel	84	89	75-125	2	20	12.6	12.9	3	20
Silver	98	94	75-125	4	20	0.0376 J	0.0490 J	26* (1)	20
Thallium	94	92	75-125	1	20	0.230	0.213	8 (1)	20
Vanadium	80 (2)	84 (2)	75-125	1	20	46.9	43.7	7	20
Zinc	91 (2)	81 (2)	75-125	2	20	48.5	47.7	2	20
Batch number: 103061026001B	Sample number(s): 6128965-6128968 UNSPK: 6128965 BKG: 6128965								
Selenium	88	84	75-125	5	20	0.0459 J	0.0385 U	200* (1)	20
Batch number: 103061026001C	Sample number(s): 6128965-6128968 UNSPK: 6128965 BKG: 6128965								
Molybdenum	94	88	75-125	7	20	0.308	0.224	31* (1)	20
Batch number: 103061026001D	Sample number(s): 6128965-6128968 UNSPK: 6128965 BKG: 6128965								
Barium	-289 (2)	-20 (2)	75-125	28*	20	111	92.3	18	20
Batch number: 103065708003	Sample number(s): 6128965-6128968 UNSPK: 6128965 BKG: 6128965								
Aluminum	947 (2)	2074 (2)	75-125	9	20	21,900	21,800	0	20
Boron	101	103	84-115	3	20	16.9	16.0	5 (1)	20
Calcium	68 (2)	203 (2)	75-125	11	20	4,570	4,610	1	20
Iron	-701 (2)	-1099 (2)	75-125	2	20	25,700	25,900	1	20
Lithium	103	105	82-114	3	20	23.3	23.5	1	20
Magnesium	51 (2)	290 (2)	75-125	8	20	5,650	5,560	1	20
Manganese	92 (2)	282 (2)	75-125	29*	20	240	223	7	20
Phosphorus	96	112	75-125	6	20	230	235	2	20
Potassium	130*	156*	75-125	8	20	2,400	2,400	0	20
Sodium	101	104	75-125	4	20	203	199	2 (1)	20
Strontium	100	104	75-115	4	20	29.6	29.3	1	20
Tin	87	86	80-110	1	20	2.29 J	2.22 J	3 (1)	20
Titanium	188 (2)	314 (2)	75-125	8	20	1,340	1,380	3	20
Zirconium	98	100	75-125	4	20	5.36	5.61	5 (1)	20
Batch number: 103065711002	Sample number(s): 6128965-6128968 UNSPK: 6128965 BKG: 6128965								
Mercury	102	98	65-135	1	20	0.0077 J	0.0056 J	30* (1)	20
Batch number: 10315243201A	Sample number(s): 6128965-6128968 UNSPK: P130715 BKG: P130715								
Hexavalent Chromium by IC	89		75-125			0.86 J	0.63 J	30* (1)	20
Batch number: 10315315201A	Sample number(s): 6128965-6128968 UNSPK: P130715 BKG: P130715								
Fluoride by IC (solid)	71*		80-120			2.0	2.1	4 (1)	20
Batch number: 10322322201A	Sample number(s): 6128965-6128968 UNSPK: P125238 BKG: P125238								
Perchlorate in Soil	114		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10306039403A	Sample number(s): 6128965-6128968 BKG: 6128968								
pH						7.93	7.93	0	1
Batch number: 10313182101A	Sample number(s): 6128965 BKG: 6128965								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Oxidation Reduction Potential						458	459	0	6
Batch number: 10313182101B	Sample number(s): 6128966-6128968					BKG: 6128968			
Oxidation Reduction Potential						419	420	0	6
Batch number: 10308162401B	Sample number(s): 6128965-6128968					BKG: 6128966			
Moisture CDM						8.3	7.8	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: B103091AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6128965	115	105	94	80
6128968	114	107	94	80
Blank	114	106	93	84
LCS	108	107	96	96
MS	106	100	102	98
MSD	107	107	99	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1,4-Dioxane by Isotope Dil SIM
Batch number: E103091AA

	Toluene-d8
6128971	101
Blank	100
LCS	100
MS	101
MSD	101
Limits:	80-120

Analysis Name: 1,4-Dioxane by Isotope DL SIM
Batch number: E103111AA

	Toluene-d8
6128965	98
6128968	97
Blank	99
LCS	100
LCSD	99
MS	97
MSD	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219157
Reported: 12/01/10 at 04:51 PM

Surrogate Quality Control

Limits: 70-130

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

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6128971	100	101	100	98
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/Waters
Batch number: 10306WAH026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6128969	45	27	88	88	92	88
6128970	46	28	88	84	88	89
Blank	53	31	97	87	89	84
LCS	60	36	95	80	85	81
LCSD	60	37	94	79	85	73
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: Selected SVOAs in soil by SIM
Batch number: 10308SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6128965	96	82	86
6128966	95	79	89
6128967	95	79	90
6128968	92	78	92
Blank	92	80	101
LCS	90	77	101
MS	87	77	90
MSD	95	79	88
Limits:	40-130	45-130	45-135

Analysis Name: TCL SW846 Semivolatiles Soil
Batch number: 10308SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6128965	82	86	86	80	85	86
6128966	86	91	92	83	88	89
6128967	81	84	86	78	82	89
6128968	82	86	85	82	84	88
Blank	81	84	88	83	88	85
LCS	84	89	95	85	90	88
MS	89	94	89	84	88	92
MSD	85	89	93	83	90	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: Selected SVOAs in water by SIM
Batch number: 10308WAE026

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Quality Control Summary

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Reported: 12/01/10 at 04:51 PM

Surrogate Quality Control

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6128969	85	82	92
6128970	80	77	90
Blank	79	83	89
LCS	88	87	92
LCSD	86	87	90
Limits:	40-130	45-130	45-135

Analysis Name: PCBs & PCTs in Soil
Batch number: 103080005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6128965	77	72
6128966	75	75
6128967	93	85
6128968	80	84
Blank	87	93
LCS	90	101
LCSD	88	96
MS	97	97
MSD	91	92
Limits:	53-139	45-120

Analysis Name: PCBs & PCTs in Water
Batch number: 103090016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6128969	99	82
6128970	105	42*
Blank	105	90
LCS	95	78
LCSD	100	87
Limits:	30-150	30-150

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13013 1219157 6128965-71

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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 & 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 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015B	Other Instructions and Notes
SL-125-SA5C-SB-4.0-6.0	11.01.10	1100	Soil	none	1 X 16 oz. glass jar			X					X														
SL-125-SA5C-SB-4.0-6.0	11.01.10	1100		none	1 X 16 oz. glass jar					X	X	X		X	X												
SL-125-SA5C-SB-4.5	11.01.10	1055		none	4 encore samplers	X	X																				
SL-125-SA5C-SB-7.0-9.0	11.01.10	1115		none	1 X 16 oz. glass jar			X					X														
SL-125-SA5C-SB-7.0-9.0	11.01.10	1115		none	1 X 16 oz. glass jar					X	X	X		X	X												
SL-127-SA5C-SB-7.5-8.5	11.01.10	1452		none	1 X 16 oz. glass jar			X					X														
SL-127-SA5C-SB-7.5-8.5	11.01.10	1452		none	1 X 16 oz. glass jar					X	X	X		X	X												
SL-127-SA5C-SB-4.0-5.0	11.01.10	1448		none	1 X 16 oz. glass jar			X					X														
SL-127-SA5C-SB-4.0-5.0	11.01.10	1448		none	1 X 16 oz. glass jar					X	X	X		X	X												
SL-127-SA5C-SB-4.5	11.01.10	1445		none	4 encore samplers	X	X																				
FB04-SA5C-110110	11.01.10	1520		HNO_3	1 x 500 ml poly					X																	
FB04-SA5C-110110	11.01.10	1520	↓	none	1 x 500 ml poly						X	X			X												
EB04-SA5C-110110	11.01.10	1545	H_2O	HNO_3	1 x 500 ml poly					X																	
EB04-SA5C-110110	11.01.10	1545	H_2O	none	1 x 500 ml poly						X	X			X												
TB-110110	11.01.10	1630	H_2O	HCl	2x 40ml VOA vial	X																					

Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Laboratory:
	11/1/10 1700						Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Airbill No.**	
Fed Ex						11/2/10 900	

13013 1219157 6128965-71

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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 & 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 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015B	Other Instructions and Notes
FB04-SA5C-110110	11.01.10	1520	water	none	7 x 1 liter ambers			X					X	X													

Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	11/1/10 1700						Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Airbill No.** 1112/10 900	

13013 1219157 6128965-71

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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 & 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 8330A	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015B	Other Instructions and Notes
EB04-SA5C-110110	11.01.10	1545	water	none	7 x 1 liter ambers			X					X	X													

Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Laboratory:
	11/1/10 1700						Lancaster Laboratories, Inc.
Received by: *(Signature)*	Date/Time	Received by: *(Signature)*	Date/Time	Received by: *(Signature)*	Date/Time	Airbill No. ~~401~~ 11/2/10	
FedEx						Date 11/2/10 700	

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ 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

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

Inorganic Qualifiers

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

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

Analysis Report

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

November 29, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/03/2010
Group Number: 1219430
SDG: DE007
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-126-SA5C-SB-4.0-5.0 Soil	6130713
SL-126-SA5C-SB-9.0-10.0 Soil	6130714
SL-128-SA5C-SB-4.0-5.0 Soil	6130715
SL-128-SA5C-SB-4.0-5.0MS Soil	6130716
SL-128-SA5C-SB-4.0-5.0MSD Soil	6130717
SL-128-SA5C-SB-4.0-5.0DUP Soil	6130718
DUP04-SA5C-QC-100210 Soil	6130719
SL-128-SA5C-SB-8.0-9.0 Soil	6130720
DUP05-SA5C-QC-100210 Soil	6130721
TB-110210 Water	6130722

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

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

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Jenifer E. Hess
Manager

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-126-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-4.0-5.0

LLI Sample # SW 6130713
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:44

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2645 SDG#: DE007-01

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	7.8	U	7.8	9.3	1.04
06192	Benzene	71-43-2	0.12	U	0.12	4.7	1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7	1.04
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7	1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7	1.04
06192	Bromoform	75-25-2	0.47	U	0.47	4.7	1.04
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7	1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3	1.04
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7	1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7	1.04
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7	1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7	1.04
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7	1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7	1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7	1.04
06192	Chloroform	67-66-3	0.14	U	0.14	4.7	1.04
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7	1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7	1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7	1.04
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8	1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7	1.04
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.7	1.04
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7	1.04
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7	1.04
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.7	1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7	1.04
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7	1.04
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7	1.04
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7	1.04
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7	1.04
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7	1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7	1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7	1.04
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7	1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7	1.04
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7	1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7	1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7	1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7	1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7	1.04
06192	Freon 113	76-13-1	0.13	U	0.13	4.7	1.04
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8	1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7	1.04
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3	1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7	1.04
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7	1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.7	1.04
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.3	1.04
06192	Methylene Chloride	75-09-2	4.2	J	0.28	4.7	1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7	1.04

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

Sample Description: SL-126-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-4.0-5.0

LLI Sample # SW 6130713
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:44

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2645 SDG#: DE007-01

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	0.12	U	0.12	4.7	1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7	1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7	1.04
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.7	1.04
06192	Toluene	108-88-3	0.09	U	0.09	4.7	1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7	1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7	1.04
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.7	1.04
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.7	1.04
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7	1.04
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7	1.04
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7	1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7	1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7	1.04
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.7	1.04
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7	1.04
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7	1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16	23.11
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

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

Sample Description: SL-126-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-4.0-5.0

LLI Sample # SW 6130713
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:44

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2645 SDG#: DE007-01

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	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
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	15	J	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

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

Sample Description: SL-126-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-4.0-5.0

LLI Sample # SW 6130713
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:44

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2645 SDG#: DE007-01

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	6.8	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
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.						
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	30,300		5.55	22.1	1
07914	Boron	7440-42-8	4.91	U	4.91	27.6	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	8,350		6.77	22.1	1
01654	Iron	7439-89-6	31,500		26.0	110	5
01656	Lithium	7439-93-2	28.2		0.24	2.2	1
01657	Magnesium	7439-95-4	6,050		2.80	11.0	1
06958	Manganese	7439-96-5	298		0.0861	0.552	1
10145	Phosphorus	7723-14-0	143		0.618	11.0	1
01662	Potassium	7440-09-7	2,890		19.9	55.2	1
01667	Sodium	7440-23-5	770		41.2	110	1
07968	Strontium	7440-24-6	38.4		0.0685	0.552	1
06969	Tin	7440-31-5	2.85	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,480		2.10	5.52	5
10146	Zirconium	7440-67-7	6.87		0.927	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.202	J	0.0656	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	10.2		0.0656	0.437	2
06126	Barium	7440-39-3	273		0.295	1.09	5
06127	Beryllium	7440-41-7	0.874		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.131		0.0394	0.109	2

Sample Description: **SL-126-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-4.0-5.0

LLI Sample # SW 6130713
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:44

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2645 SDG#: DE007-01

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	39.5		0.131	0.437	2
06132	Cobalt	7440-48-4	8.56		0.0219	0.109	2
06133	Copper	7440-50-8	15.2		0.0722	0.437	2
06135	Lead	7439-92-1	11.0		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.623		0.0547	0.109	2
06139	Nickel	7440-02-0	20.5		0.109	0.437	2
06141	Selenium	7782-49-2	0.138	J	0.0437	0.437	2
06142	Silver	7440-22-4	0.0631	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.404		0.0328	0.109	2
06148	Vanadium	7440-62-2	73.0		0.0241	0.109	2
06149	Zinc	7440-66-6	61.8		0.612	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088	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	18.6		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	10.1	U	10.1	33.8	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.	430		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.	7.56		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
The volatile analysis was performed on soil from SL-126-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-126-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-4.0-5.0

LLI Sample # SW 6130713
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:44

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2645 SDG#: DE007-01

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	B103091AA	11/05/2010 15:20	Chelsea B Eastep	1.04
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 15:06	Jason M Long	23.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030722824	11/03/2010 18:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030722824	11/03/2010 18:20	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030722824	11/03/2010 18:20	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030722824	11/03/2010 18:17	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10308SLB026	11/15/2010 00:36	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/22/2010 01:47	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 20:16	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 12:36	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 12:47	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 12:36	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 22:14	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 12:36	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 12:36	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 12:36	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 12:36	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 22:10	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 12:36	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 12:36	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 12:47	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 12:36	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/15/2010 06:39	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 12:51	Choon Y Tian	2

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-126-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-4.0-5.0

LLI Sample # SW 6130713
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:44

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2645 SDG#: DE007-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 22:27	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201A	11/19/2010 19:02	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10315243201A	11/12/2010 12:24	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201A	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101A	11/05/2010 10:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10307039401A	11/03/2010 14:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	2	10309162402A	11/05/2010 10:10	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-9.0-10.0

LLI Sample # SW 6130714
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:46

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2691 SDG#: DE007-02

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	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
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

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

Sample Description: SL-126-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-9.0-10.0

LLI Sample # SW 6130714
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:46

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2691 SDG#: DE007-02

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	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	6.7	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	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	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	9.1	J	6.7	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
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	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	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

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	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	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.

Sample Description: **SL-126-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-9.0-10.0

LLI Sample # SW 6130714
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:46

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2691 SDG#: DE007-02

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	20,700		5.41	21.5	1
07914	Boron	7440-42-8	4.79	U	4.79	26.9	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	6,260		6.60	21.5	1
01654	Iron	7439-89-6	23,300		5.07	21.5	1
01656	Lithium	7439-93-2	24.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,910		2.73	10.8	1
06958	Manganese	7439-96-5	182		0.0840	0.538	1
10145	Phosphorus	7723-14-0	328		0.603	10.8	1
01662	Potassium	7440-09-7	2,730		19.4	53.8	1
01667	Sodium	7440-23-5	363		40.1	108	1
07968	Strontium	7440-24-6	27.2		0.0667	0.538	1
06969	Tin	7440-31-5	2.47	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,350		2.05	5.38	5
10146	Zirconium	7440-67-7	4.83	J	0.904	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.389		0.0646	0.215	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	10.8		0.0646	0.431	2
06126	Barium	7440-39-3	102		0.116	0.431	2
06127	Beryllium	7440-41-7	0.675		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.122		0.0387	0.108	2
06131	Chromium	7440-47-3	30.4		0.129	0.431	2
06132	Cobalt	7440-48-4	7.59		0.0215	0.108	2
06133	Copper	7440-50-8	13.2		0.0710	0.431	2
06135	Lead	7439-92-1	10.1		0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.663		0.0538	0.108	2
06139	Nickel	7440-02-0	18.6		0.108	0.431	2
06141	Selenium	7782-49-2	0.0720	J	0.0431	0.431	2
06142	Silver	7440-22-4	0.0515	J	0.0129	0.108	2
06145	Thallium	7440-28-0	0.407		0.0323	0.108	2
06148	Vanadium	7440-62-2	65.6		0.0237	0.108	2
06149	Zinc	7440-66-6	67.4		0.603	3.23	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	5.5		0.89	1.1	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		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.77	J	0.22	1.1	1

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

Sample Description: **SL-126-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-9.0-10.0

LLI Sample # SW 6130714
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:46

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2691 SDG#: DE007-02

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.	408	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.	8.54	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture CDM		n.a.	9.8	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	10308SLB026	11/15/2010 01:03	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/22/2010 02:18	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 20:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 12:47	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 12:50	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 12:47	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 22:17	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 12:47	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 12:47	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 12:47	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 12:47	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 22:17	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 12:47	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 12:47	Damary Valentin	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5C-SB-9.0-10.0

LLI Sample # SW 6130714
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 10:46

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2691 SDG#: DE007-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 12:50	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 12:47	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/15/2010 06:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 12:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 12:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 22:42	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201A	11/19/2010 19:26	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 12:30	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201A	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101A	11/05/2010 10:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10307039401A	11/03/2010 14:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162403B	11/04/2010 11:16	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130715
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03BKG

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	7.6	U	7.6	9.0	0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.5	0.99
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	0.99
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	0.99
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	0.99
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	0.99
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0	0.99
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5	0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	0.99
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	0.99
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	0.99
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5	0.99
06192	Chloroform	67-66-3	0.15	J	0.14	4.5	0.99
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	0.99
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	0.99
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	0.99
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6	0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5	0.99
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5	0.99
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	0.99
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	0.99
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	0.99
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5	0.99
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	0.99
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5	0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	0.99
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	0.99
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5	0.99
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	0.99
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	0.99
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	0.99
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5	0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	0.99
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6	0.99
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	0.99
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0	0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5	0.99
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0	0.99
06192	Methylene Chloride	75-09-2	4.3	J	0.27	4.5	0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	0.99

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

Sample Description: SL-128-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130715
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03BKG

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	4.5	0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	0.99
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5	0.99
06192	Toluene	108-88-3	0.26	J	0.09	4.5	0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	0.99
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5	0.99
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5	0.99
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5	0.99
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5	0.99
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	0.99
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5	0.99
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5	0.99
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	0.99
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	15	22.4
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

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

Sample Description: SL-128-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130715
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03BKG

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
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	6.9	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	0.76	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	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	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-128-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130715
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03BKG

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	9.4	J	6.9	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
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.						
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	34,000		5.64	22.4	1
07914	Boron	7440-42-8	4.99	U	4.99	28.0	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,130		6.87	22.4	1
01654	Iron	7439-89-6	31,500		26.4	112	5
01656	Lithium	7439-93-2	31.2		0.25	2.2	1
01657	Magnesium	7439-95-4	5,620		2.85	11.2	1
06958	Manganese	7439-96-5	256		0.0874	0.560	1
10145	Phosphorus	7723-14-0	153		0.627	11.2	1
01662	Potassium	7440-09-7	2,550		20.2	56.0	1
01667	Sodium	7440-23-5	233		41.8	112	1
07968	Strontium	7440-24-6	33.2		0.0695	0.560	1
06969	Tin	7440-31-5	2.60	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,230		2.13	5.60	5
10146	Zirconium	7440-67-7	6.36		0.941	5.60	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.362		0.0679	0.226	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	8.55		0.0679	0.453	2
06126	Barium	7440-39-3	172		0.122	0.453	2
06127	Beryllium	7440-41-7	1.00		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.187		0.0407	0.113	2

Sample Description: **SL-128-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130715
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03BKG

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	36.8	0.136	0.453	2
06132	Cobalt	7440-48-4	8.88	0.0226	0.113	2
06133	Copper	7440-50-8	11.6	0.0747	0.453	2
06135	Lead	7439-92-1	11.1	0.0118	0.226	2
06138	Molybdenum	7439-98-7	0.490	0.0566	0.113	2
06139	Nickel	7440-02-0	20.9	0.113	0.453	2
06141	Selenium	7782-49-2	0.225 J	0.0453	0.453	2
06142	Silver	7440-22-4	0.0933 J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.391	0.0339	0.113	2
06148	Vanadium	7440-62-2	65.5	0.0249	0.113	2
06149	Zinc	7440-66-6	55.5	0.634	3.39	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079 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	2.3	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	10.3 U	10.3	34.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.98 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	492	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.	7.31	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture CDM	n.a.	12.5	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-128-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-128-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130715
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03BKG

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	B103091AA	11/05/2010 15:43	Chelsea B Eastep	0.99
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103111AB	11/08/2010 11:58	Jason M Long	22.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030722824	11/03/2010 18:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030722824	11/03/2010 18:20	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030722824	11/03/2010 18:03	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10308SLB026	11/14/2010 21:28	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/19/2010 16:43	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 20:54	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 12:12	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 12:27	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 12:12	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 21:44	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 12:12	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 12:12	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 12:12	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 22:47	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 12:12	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/16/2010 09:26	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 12:12	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 12:12	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 12:27	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 12:12	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 12:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 12:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 12:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 12:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:06	Damary Valentin	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-128-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130715
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03BKG

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	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 19:24	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201B	11/19/2010 20:14	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10315243201A	11/12/2010 12:51	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101A	11/05/2010 10:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10307039401A	11/03/2010 14:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162403B	11/04/2010 11:16	William C Schwebel	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-128-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130716
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MS

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	330	7.0	8.4	0.92
06192	Benzene	71-43-2	20	0.11	4.2	0.92
06192	Bromobenzene	108-86-1	21	0.14	4.2	0.92
06192	Bromochloromethane	74-97-5	23	0.35	4.2	0.92
06192	Bromodichloromethane	75-27-4	21	0.08	4.2	0.92
06192	Bromoform	75-25-2	21	0.42	4.2	0.92
06192	Bromomethane	74-83-9	27	0.26	4.2	0.92
06192	2-Butanone	78-93-3	170	1.3	8.4	0.92
06192	n-Butylbenzene	104-51-8	20	0.13	4.2	0.92
06192	sec-Butylbenzene	135-98-8	21	0.06	4.2	0.92
06192	tert-Butylbenzene	98-06-6	20	0.17	4.2	0.92
06192	Carbon Tetrachloride	56-23-5	22	0.15	4.2	0.92
06192	Chlorobenzene	108-90-7	21	0.12	4.2	0.92
06192	Chloroethane	75-00-3	24	0.14	4.2	0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.31	4.2	0.92
06192	Chloroform	67-66-3	21	0.13	4.2	0.92
06192	Chloromethane	74-87-3	25	0.35	4.2	0.92
06192	2-Chlorotoluene	95-49-8	20	0.15	4.2	0.92
06192	4-Chlorotoluene	106-43-4	21	0.15	4.2	0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	20	0.73	4.2	0.92
06192	Dibromochloromethane	124-48-1	22	0.21	4.2	0.92
06192	1,2-Dibromoethane	106-93-4	21	0.18	4.2	0.92
06192	Dibromomethane	74-95-3	21	0.25	4.2	0.92
06192	1,2-Dichlorobenzene	95-50-1	20	0.09	4.2	0.92
06192	1,3-Dichlorobenzene	541-73-1	20	0.13	4.2	0.92
06192	1,4-Dichlorobenzene	106-46-7	20	0.17	4.2	0.92
06192	Dichlorodifluoromethane	75-71-8	21	0.13	4.2	0.92
06192	1,1-Dichloroethane	75-34-3	20	0.11	4.2	0.92
06192	1,2-Dichloroethane	107-06-2	22	0.16	4.2	0.92
06192	1,1-Dichloroethene	75-35-4	24	0.41	4.2	0.92
06192	cis-1,2-Dichloroethene	156-59-2	20	0.20	4.2	0.92
06192	trans-1,2-Dichloroethene	156-60-5	23	0.13	4.2	0.92
06192	1,2-Dichloropropane	78-87-5	20	0.18	4.2	0.92
06192	1,3-Dichloropropane	142-28-9	20	0.08	4.2	0.92
06192	2,2-Dichloropropane	594-20-7	22	0.18	4.2	0.92
06192	1,1-Dichloropropene	563-58-6	20	0.14	4.2	0.92
06192	cis-1,3-Dichloropropene	10061-01-5	19	0.17	4.2	0.92
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.18	4.2	0.92
06192	Ethylbenzene	100-41-4	21	0.06	4.2	0.92
06192	Freon 113	76-13-1	25	0.12	4.2	0.92
06192	Hexachlorobutadiene	87-68-3	20	0.15	4.2	0.92
06192	2-Hexanone	591-78-6	110	1.7	8.4	0.92
06192	Isopropylbenzene	98-82-8	20	0.06	4.2	0.92
06192	p-Isopropyltoluene	99-87-6	21	0.12	4.2	0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	24	0.22	4.2	0.92
06192	4-Methyl-2-pentanone	108-10-1	110	0.41	8.4	0.92
06192	Methylene Chloride	75-09-2	31	0.25	4.2	0.92
06192	n-Propylbenzene	103-65-1	20	0.07	4.2	0.92
06192	Styrene	100-42-5	21	0.11	4.2	0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	22	0.12	4.2	0.92

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

Sample Description: SL-128-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130716
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MS

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	1,1,2,2-Tetrachloroethane	79-34-5	20		0.24	4.2	0.92
06192	Tetrachloroethene	127-18-4	22		0.21	4.2	0.92
06192	Toluene	108-88-3	20		0.08	4.2	0.92
06192	1,2,3-Trichlorobenzene	87-61-6	17		0.15	4.2	0.92
06192	1,2,4-Trichlorobenzene	120-82-1	16		0.19	4.2	0.92
06192	1,1,1-Trichloroethane	71-55-6	22		0.21	4.2	0.92
06192	1,1,2-Trichloroethane	79-00-5	21		0.28	4.2	0.92
06192	Trichloroethene	79-01-6	21		0.16	4.2	0.92
06192	Trichlorofluoromethane	75-69-4	29		0.30	4.2	0.92
06192	1,2,3-Trichloropropane	96-18-4	22		0.35	4.2	0.92
06192	1,2,4-Trimethylbenzene	95-63-6	21		0.42	4.2	0.92
06192	1,3,5-Trimethylbenzene	108-67-8	21		0.11	4.2	0.92
06192	Vinyl Chloride	75-01-4	25		0.21	4.2	0.92
06192	m+p-Xylene	179601-23-1	44		0.18	4.2	0.92
06192	o-Xylene	95-47-6	20		0.18	4.2	0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	130		5.3	16	23.06
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700		19	190	1
04688	Acenaphthylene	208-96-8	1,800		19	190	1
04688	Aniline	62-53-3	1,300		190	570	1
04688	Anthracene	120-12-7	1,900		19	190	1
04688	Benzidine	92-87-5	2,200	J	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190	1
04688	Benzoic acid	65-85-0	1,500		190	570	1
04688	Benzyl alcohol	100-51-6	1,900		190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		19	190	1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190	1
04688	4-Chloroaniline	106-47-8	1,000		76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		19	190	1
04688	2-Chloronaphthalene	91-58-7	2,000		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		38	190	1
04688	Chrysene	218-01-9	1,900		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		19	190	1
04688	Dibenzofuran	132-64-9	1,700		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190	1

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

Sample Description: **SL-128-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130716
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MS

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	1,600	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500	110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190	1
04688	Diethylphthalate	84-66-2	1,700	19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190	1
04688	3,5-Dimethylphenol	108-68-9	1,800	38	190	1
04688	Dimethylphthalate	131-11-3	1,700	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600	190	570	1
04688	2,4-Dinitrophenol	51-28-5	2,700	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	1,700	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,700	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	380	1
04688	Fluoranthene	206-44-0	1,800	19	190	1
04688	Fluorene	86-73-7	1,700	19	190	1
04688	Hexachlorobenzene	118-74-1	1,900	19	190	1
04688	Hexachlorobutadiene	87-68-3	1,700	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	3,200	190	570	1
04688	Hexachloroethane	67-72-1	1,600	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	19	190	1
04688	Isophorone	78-59-1	1,600	19	190	1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190	1
04688	2-Methylphenol	95-48-7	1,800	38	190	1
04688	4-Methylphenol	106-44-5	1,800	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	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,800	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	38	190	1
04688	4-Nitroaniline	100-01-6	1,400	76	190	1
04688	Nitrobenzene	98-95-3	1,700	19	190	1
04688	2-Nitrophenol	88-75-5	1,700	19	190	1
04688	4-Nitrophenol	100-02-7	1,800	190	570	1
04688	N-Nitrosodimethylamine	62-75-9	1,700	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	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	Di-n-octylphthalate	117-84-0	1,800	19	190	1
04688	Pentachlorophenol	87-86-5	1,800	190	570	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,800	19	190	1
04688	Pyrene	129-00-0	2,000	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	38	190	1

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

Sample Description: SL-128-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130716
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MS

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	Acenaphthene	83-32-9	32		0.76	1.9	1
10138	Acenaphthylene	208-96-8	30		0.38	1.9	1
10138	Anthracene	120-12-7	31		0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	34		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	31		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	35		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	21		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	35		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	42		6.9	21	1
10138	Di-n-butylphthalate	84-74-2	37		6.9	21	1
10138	Chrysene	218-01-9	34		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	26		0.76	1.9	1
10138	Diethylphthalate	84-66-2	36		6.9	21	1
10138	Dimethylphthalate	131-11-3	36		6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	65		6.9	21	1
10138	Fluoranthene	206-44-0	27		0.76	1.9	1
10138	Fluorene	86-73-7	32		0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	25		0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	32		0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	29		0.76	1.9	1
10138	Naphthalene	91-20-3	31		0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	33		0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	100		6.9	21	1
10138	Phenanthrene	85-01-8	32		0.76	1.9	1
10138	Pyrene	129-00-0	38		0.76	1.9	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.						
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	17		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	21		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	42,400		5.69	22.6	1
07914	Boron	7440-42-8	215		5.04	28.3	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,870		6.94	22.6	1
01654	Iron	7439-89-6	32,500		26.6	113	5

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

Sample Description: **SL-128-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130716
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

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

A2845 SDG#: DE007-03MS

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**	
01656	Lithium	7439-93-2	145	0.25	2.3	1
01657	Magnesium	7439-95-4	6,140	2.87	11.3	1
06958	Manganese	7439-96-5	295	0.0883	0.566	1
10145	Phosphorus	7723-14-0	268	0.634	11.3	1
01662	Potassium	7440-09-7	4,100	20.4	56.6	1
01667	Sodium	7440-23-5	1,410	42.2	113	1
07968	Strontium	7440-24-6	146	0.0702	0.566	1
06969	Tin	7440-31-5	421	1.13	11.3	1
06970	Titanium	7440-32-6	1,450	2.15	5.66	5
10146	Zirconium	7440-67-7	116	0.950	5.66	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.18	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	10.9	0.0672	0.448	2
06126	Barium	7440-39-3	195	0.121	0.448	2
06127	Beryllium	7440-41-7	1.83	0.0179	0.112	2
06128	Cadmium	7440-43-9	1.76	0.0403	0.112	2
06131	Chromium	7440-47-3	53.8	0.134	0.448	2
06132	Cobalt	7440-48-4	69.4	0.0224	0.112	2
06133	Copper	7440-50-8	24.8	0.0739	0.448	2
06135	Lead	7439-92-1	15.6	0.0117	0.224	2
06138	Molybdenum	7439-98-7	13.7	0.0560	0.112	2
06139	Nickel	7440-02-0	34.7	0.112	0.448	2
06141	Selenium	7782-49-2	2.49	0.0448	0.448	2
06142	Silver	7440-22-4	14.3	0.0134	0.112	2
06145	Thallium	7440-28-0	1.03	0.0336	0.112	2
06148	Vanadium	7440-62-2	86.6	0.0246	0.112	2
06149	Zinc	7440-66-6	70.0	0.627	3.36	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.184	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	10.5	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	649	10.3	34.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	41.6	1.1	5.7	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture CDM	n.a.	12.5	0.50	0.50	1

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

Sample Description: **SL-128-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130716
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MS

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-128-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	B103091AA	11/05/2010 16:05	Chelsea B Eastep	0.92
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103111AB	11/08/2010 12:18	Jason M Long	23.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030722824	11/03/2010 18:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030722824	11/03/2010 18:20	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030722824	11/03/2010 18:06	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10308SLB026	11/14/2010 21:54	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/19/2010 17:14	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 21:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 12:24	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 12:37	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 12:24	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 22:00	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 12:24	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 12:24	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 12:24	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 22:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 12:24	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 21:34	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 12:24	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 12:24	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 12:37	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 12:24	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 12:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 12:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-128-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130716
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 12:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 12:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 19:55	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201B	11/19/2010 21:02	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 12:58	William L Hamaker Jr	5
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403B	11/04/2010 11:16	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130717
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MSD

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	400	7.7	9.2	1.01
06192	Benzene	71-43-2	21	0.12	4.6	1.01
06192	Bromobenzene	108-86-1	21	0.15	4.6	1.01
06192	Bromochloromethane	74-97-5	22	0.38	4.6	1.01
06192	Bromodichloromethane	75-27-4	22	0.09	4.6	1.01
06192	Bromoform	75-25-2	21	0.46	4.6	1.01
06192	Bromomethane	74-83-9	26	0.29	4.6	1.01
06192	2-Butanone	78-93-3	200	1.4	9.2	1.01
06192	n-Butylbenzene	104-51-8	19	0.14	4.6	1.01
06192	sec-Butylbenzene	135-98-8	20	0.07	4.6	1.01
06192	tert-Butylbenzene	98-06-6	20	0.18	4.6	1.01
06192	Carbon Tetrachloride	56-23-5	23	0.16	4.6	1.01
06192	Chlorobenzene	108-90-7	21	0.13	4.6	1.01
06192	Chloroethane	75-00-3	25	0.15	4.6	1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.35	4.6	1.01
06192	Chloroform	67-66-3	23	0.14	4.6	1.01
06192	Chloromethane	74-87-3	25	0.38	4.6	1.01
06192	2-Chlorotoluene	95-49-8	20	0.16	4.6	1.01
06192	4-Chlorotoluene	106-43-4	20	0.16	4.6	1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	19	0.81	4.6	1.01
06192	Dibromochloromethane	124-48-1	22	0.23	4.6	1.01
06192	1,2-Dibromoethane	106-93-4	21	0.20	4.6	1.01
06192	Dibromomethane	74-95-3	23	0.28	4.6	1.01
06192	1,2-Dichlorobenzene	95-50-1	20	0.10	4.6	1.01
06192	1,3-Dichlorobenzene	541-73-1	19	0.14	4.6	1.01
06192	1,4-Dichlorobenzene	106-46-7	19	0.18	4.6	1.01
06192	Dichlorodifluoromethane	75-71-8	20	0.14	4.6	1.01
06192	1,1-Dichloroethane	75-34-3	21	0.12	4.6	1.01
06192	1,2-Dichloroethane	107-06-2	24	0.17	4.6	1.01
06192	1,1-Dichloroethene	75-35-4	25	0.45	4.6	1.01
06192	cis-1,2-Dichloroethene	156-59-2	22	0.22	4.6	1.01
06192	trans-1,2-Dichloroethene	156-60-5	25	0.14	4.6	1.01
06192	1,2-Dichloropropane	78-87-5	21	0.20	4.6	1.01
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.6	1.01
06192	2,2-Dichloropropane	594-20-7	23	0.20	4.6	1.01
06192	1,1-Dichloropropene	563-58-6	21	0.15	4.6	1.01
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.18	4.6	1.01
06192	trans-1,3-Dichloropropene	10061-02-6	20	0.20	4.6	1.01
06192	Ethylbenzene	100-41-4	21	0.07	4.6	1.01
06192	Freon 113	76-13-1	26	0.13	4.6	1.01
06192	Hexachlorobutadiene	87-68-3	18	0.16	4.6	1.01
06192	2-Hexanone	591-78-6	130	1.8	9.2	1.01
06192	Isopropylbenzene	98-82-8	21	0.07	4.6	1.01
06192	p-Isopropyltoluene	99-87-6	20	0.13	4.6	1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	26	0.24	4.6	1.01
06192	4-Methyl-2-pentanone	108-10-1	110	0.45	9.2	1.01
06192	Methylene Chloride	75-09-2	29	0.28	4.6	1.01
06192	n-Propylbenzene	103-65-1	21	0.08	4.6	1.01
06192	Styrene	100-42-5	21	0.12	4.6	1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	22	0.13	4.6	1.01

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

Sample Description: SL-128-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130717
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MSD

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	1,1,2,2-Tetrachloroethane	79-34-5	20		0.27	4.6	1.01
06192	Tetrachloroethene	127-18-4	22		0.23	4.6	1.01
06192	Toluene	108-88-3	21		0.09	4.6	1.01
06192	1,2,3-Trichlorobenzene	87-61-6	17		0.16	4.6	1.01
06192	1,2,4-Trichlorobenzene	120-82-1	16		0.21	4.6	1.01
06192	1,1,1-Trichloroethane	71-55-6	23		0.23	4.6	1.01
06192	1,1,2-Trichloroethane	79-00-5	21		0.31	4.6	1.01
06192	Trichloroethene	79-01-6	21		0.17	4.6	1.01
06192	Trichlorofluoromethane	75-69-4	28		0.33	4.6	1.01
06192	1,2,3-Trichloropropane	96-18-4	21		0.38	4.6	1.01
06192	1,2,4-Trimethylbenzene	95-63-6	20		0.46	4.6	1.01
06192	1,3,5-Trimethylbenzene	108-67-8	20		0.12	4.6	1.01
06192	Vinyl Chloride	75-01-4	24		0.23	4.6	1.01
06192	m+p-Xylene	179601-23-1	44		0.20	4.6	1.01
06192	o-Xylene	95-47-6	20		0.20	4.6	1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	130		5.3	16	23.06
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700		19	190	1
04688	Acenaphthylene	208-96-8	1,800		19	190	1
04688	Aniline	62-53-3	1,100		190	570	1
04688	Anthracene	120-12-7	1,800		19	190	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190	1
04688	Benzoic acid	65-85-0	1,200		190	570	1
04688	Benzyl alcohol	100-51-6	1,800		190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190	1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190	1
04688	4-Chloroaniline	106-47-8	950		76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		19	190	1
04688	2-Chloronaphthalene	91-58-7	2,100		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		38	190	1
04688	Chrysene	218-01-9	1,800		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		19	190	1

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

Sample Description: **SL-128-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130717
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MSD

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	1,500		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190	1
04688	Diethylphthalate	84-66-2	1,700		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190	1
04688	3,5-Dimethylphenol	108-68-9	1,800		38	190	1
04688	Dimethylphthalate	131-11-3	1,700		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500		190	570	1
04688	2,4-Dinitrophenol	51-28-5	2,300	J	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	380	1
04688	Fluoranthene	206-44-0	1,800		19	190	1
04688	Fluorene	86-73-7	1,700		19	190	1
04688	Hexachlorobenzene	118-74-1	1,800		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,700		76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		190	570	1
04688	Hexachloroethane	67-72-1	1,500		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		19	190	1
04688	Isophorone	78-59-1	1,600		19	190	1
04688	1-Methylnaphthalene	90-12-0	1,800		19	190	1
04688	2-Methylnaphthalene	91-57-6	1,600		19	190	1
04688	2-Methylphenol	95-48-7	1,700		38	190	1
04688	4-Methylphenol	106-44-5	1,800		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	Naphthalene	91-20-3	1,700		19	190	1
04688	2-Nitroaniline	88-74-4	1,800		19	190	1
04688	3-Nitroaniline	99-09-2	1,700		38	190	1
04688	4-Nitroaniline	100-01-6	1,500		76	190	1
04688	Nitrobenzene	98-95-3	1,700		19	190	1
04688	2-Nitrophenol	88-75-5	1,800		19	190	1
04688	4-Nitrophenol	100-02-7	1,800		190	570	1
04688	N-Nitrosodimethylamine	62-75-9	1,600		38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500		19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		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	Di-n-octylphthalate	117-84-0	1,800		19	190	1
04688	Pentachlorophenol	87-86-5	1,700		190	570	1
04688	Phenanthrene	85-01-8	1,700		19	190	1
04688	Phenol	108-95-2	1,700		19	190	1
04688	Pyrene	129-00-0	1,900		19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	2,000		38	190	1

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

Sample Description: SL-128-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130717
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MSD

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	Acenaphthene	83-32-9	37		0.76	1.9	1
10138	Acenaphthylene	208-96-8	32		0.38	1.9	1
10138	Anthracene	120-12-7	34		0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	36		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	32		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	32		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	39		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	30		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	45		6.9	21	1
10138	Di-n-butylphthalate	84-74-2	37		6.9	21	1
10138	Chrysene	218-01-9	37		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	38		0.76	1.9	1
10138	Diethylphthalate	84-66-2	40		6.9	21	1
10138	Dimethylphthalate	131-11-3	38		6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	58		6.9	21	1
10138	Fluoranthene	206-44-0	28		0.76	1.9	1
10138	Fluorene	86-73-7	34		0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	38		0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	33		0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	30		0.76	1.9	1
10138	Naphthalene	91-20-3	32		0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	37		0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	43		6.9	21	1
10138	Phenanthrene	85-01-8	34		0.76	1.9	1
10138	Pyrene	129-00-0	39		0.76	1.9	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.						
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	16		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	20		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	40,000		5.75	22.9	1
07914	Boron	7440-42-8	215		5.09	28.6	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,710		7.01	22.9	1
01654	Iron	7439-89-6	31,900		26.9	114	5

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

Sample Description: **SL-128-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130717
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MSD

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**	
01656	Lithium	7439-93-2	144	0.25	2.3	1
01657	Magnesium	7439-95-4	5,870	2.90	11.4	1
06958	Manganese	7439-96-5	292	0.0891	0.571	1
10145	Phosphorus	7723-14-0	276	0.640	11.4	1
01662	Potassium	7440-09-7	4,130	20.6	57.1	1
01667	Sodium	7440-23-5	1,390	42.6	114	1
07968	Strontium	7440-24-6	147	0.0709	0.571	1
06969	Tin	7440-31-5	432	1.14	11.4	1
06970	Titanium	7440-32-6	1,300	2.17	5.71	5
10146	Zirconium	7440-67-7	117	0.960	5.71	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.08	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	11.3	0.0672	0.448	2
06126	Barium	7440-39-3	190	0.121	0.448	2
06127	Beryllium	7440-41-7	1.92	0.0179	0.112	2
06128	Cadmium	7440-43-9	1.61	0.0403	0.112	2
06131	Chromium	7440-47-3	49.9	0.134	0.448	2
06132	Cobalt	7440-48-4	65.7	0.0224	0.112	2
06133	Copper	7440-50-8	23.1	0.0739	0.448	2
06135	Lead	7439-92-1	15.5	0.0117	0.224	2
06138	Molybdenum	7439-98-7	13.3	0.0560	0.112	2
06139	Nickel	7440-02-0	32.4	0.112	0.448	2
06141	Selenium	7782-49-2	2.51	0.0448	0.448	2
06142	Silver	7440-22-4	14.2	0.0134	0.112	2
06145	Thallium	7440-28-0	0.919	0.0336	0.112	2
06148	Vanadium	7440-62-2	83.4	0.0246	0.112	2
06149	Zinc	7440-66-6	64.7	0.627	3.36	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.193	0.0033	0.113	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture CDM	n.a.	12.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-128-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-128-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130717
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MSD

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	B103091AA	11/05/2010 16:28	Chelsea B Eastep	1.01
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103111AB	11/08/2010 12:38	Jason M Long	23.06
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030722824	11/03/2010 18:20	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030722824	11/03/2010 18:09	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10308SLB026	11/14/2010 22:21	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/21/2010 21:41	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 21:31	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 12:28	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 12:41	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 12:28	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 22:04	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 12:28	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 12:28	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 12:28	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:00	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 12:28	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 21:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 12:28	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 12:28	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 12:41	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 12:28	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 12:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 12:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 12:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 12:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-128-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130717
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403B	11/04/2010 11:16	William C Schwebel	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-128-SA5C-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130718
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03DUP

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	33,200		5.64	22.4	1
07914	Boron	7440-42-8	4.99	U	4.99	28.0	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,230		6.87	22.4	1
01654	Iron	7439-89-6	32,100		26.4	112	5
01656	Lithium	7439-93-2	28.6		0.25	2.2	1
01657	Magnesium	7439-95-4	5,430		2.85	11.2	1
06958	Manganese	7439-96-5	243		0.0874	0.560	1
10145	Phosphorus	7723-14-0	154		0.627	11.2	1
01662	Potassium	7440-09-7	2,550		20.2	56.0	1
01667	Sodium	7440-23-5	198		41.8	112	1
07968	Strontium	7440-24-6	33.2		0.0695	0.560	1
06969	Tin	7440-31-5	2.57	J	1.12	11.2	1
06970	Titanium	7440-32-6	884		0.426	1.12	1
10146	Zirconium	7440-67-7	6.02		0.941	5.60	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.315		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	7.95		0.0666	0.444	2
06126	Barium	7440-39-3	157		0.120	0.444	2
06127	Beryllium	7440-41-7	1.04		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.140		0.0399	0.111	2
06131	Chromium	7440-47-3	36.2		0.133	0.444	2
06132	Cobalt	7440-48-4	7.42		0.0222	0.111	2
06133	Copper	7440-50-8	11.8		0.0732	0.444	2
06135	Lead	7439-92-1	10.1		0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.430		0.0555	0.111	2
06139	Nickel	7440-02-0	20.1		0.111	0.444	2
06141	Selenium	7782-49-2	0.162	J	0.0444	0.444	2
06142	Silver	7440-22-4	0.0715	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.377		0.0333	0.111	2
06148	Vanadium	7440-62-2	65.2		0.0244	0.111	2
06149	Zinc	7440-66-6	55.7		0.621	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	2.4		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	10.3	U	10.3	34.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.72	J	0.23	1.1	1

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

Sample Description: SL-128-SA5C-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130718
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03DUP

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.	496	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.	7.20	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11626	CDM Moisture Duplicate	n.a.	11.8	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.	12.5	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
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 12:20	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 12:34	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 12:20	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 21:57	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 12:20	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 12:20	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 12:20	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 22:53	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 12:20	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 21:30	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 12:20	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 12:20	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/13/2010 12:20	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 12:20	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 12:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA5C-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-4.0-5.0

LLI Sample # SW 6130718
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:00

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2845 SDG#: DE007-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 12:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 12:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 12:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201A	11/12/2010 19:39	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201B	11/19/2010 20:38	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 13:54	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201A	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101A	11/05/2010 10:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10307039401A	11/03/2010 14:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403B	11/04/2010 11:16	William C Schwebel	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	10308162403B	11/04/2010 11:16	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA5C-QC-100210 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA5C-QC-100210

LLI Sample # SW 6130719
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:30

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP4 SDG#: DE007-04FD

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	0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.4	0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	0.95
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4	0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	0.95
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4	0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7	0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	0.95
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4	0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4	0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	0.95
06192	Chloroform	67-66-3	0.22	J	0.13	4.4	0.95
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4	0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4	0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4	0.95
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5	0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4	0.95
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	0.95
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4	0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4	0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4	0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4	0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4	0.95
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4	0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	0.95
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4	0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	0.95
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4	0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4	0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4	0.95
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4	0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	0.95
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5	0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4	0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7	0.95
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	0.95
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7	0.95
06192	Methylene Chloride	75-09-2	4.6		0.26	4.4	0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	0.95

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

Sample Description: DUP04-SA5C-QC-100210 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA5C-QC-100210

LLI Sample # SW 6130719
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:30

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP4 SDG#: DE007-04FD

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	4.4	0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4	0.95
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	0.95
06192	Toluene	108-88-3	0.09	J	0.09	4.4	0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4	0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	0.95
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4	0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4	0.95
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	0.95
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4	0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	0.95
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	0.95
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4	0.95
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4	0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.9	U	5.9	18	25.88
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

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

Sample Description: DUP04-SA5C-QC-100210 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA5C-QC-100210

LLI Sample # SW 6130719
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:30

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP4 SDG#: DE007-04FD

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
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	6.9	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	0.76	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	Bis(2-Ethylhexyl)phthalate	117-81-7	7.8	J	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: DUP04-SA5C-QC-100210 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA5C-QC-100210

LLI Sample # SW 6130719
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:30

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP4 SDG#: DE007-04FD

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	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.						
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	21,300		5.64	22.4	1
07914	Boron	7440-42-8	4.99	U	4.99	28.0	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	3,720		6.87	22.4	1
01654	Iron	7439-89-6	22,100		5.28	22.4	1
01656	Lithium	7439-93-2	19.3		0.25	2.2	1
01657	Magnesium	7439-95-4	4,530		2.85	11.2	1
06958	Manganese	7439-96-5	444		0.0874	0.560	1
10145	Phosphorus	7723-14-0	257		0.627	11.2	1
01662	Potassium	7440-09-7	3,690		20.2	56.0	1
01667	Sodium	7440-23-5	97.6	J	41.8	112	1
07968	Strontium	7440-24-6	27.9		0.0695	0.560	1
06969	Tin	7440-31-5	2.54	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,410		2.13	5.60	5
10146	Zirconium	7440-67-7	4.82	J	0.941	5.60	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.243		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	11.0		0.0666	0.444	2
06126	Barium	7440-39-3	164		0.120	0.444	2
06127	Beryllium	7440-41-7	0.684		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.295		0.0399	0.111	2

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

Sample Description: **DUP04-SA5C-QC-100210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA5C-QC-100210

LLI Sample # SW 6130719
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:30

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP4 SDG#: DE007-04FD

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	36.6		0.133	0.444	2
06132	Cobalt	7440-48-4	10.1		0.0222	0.111	2
06133	Copper	7440-50-8	20.0		0.0732	0.444	2
06135	Lead	7439-92-1	12.5		0.0115	0.222	2
06138	Molybdenum	7439-98-7	1.45		0.0555	0.111	2
06139	Nickel	7440-02-0	23.3		0.111	0.444	2
06141	Selenium	7782-49-2	0.185	J	0.0444	0.444	2
06142	Silver	7440-22-4	0.517		0.0133	0.111	2
06145	Thallium	7440-28-0	0.476		0.0333	0.111	2
06148	Vanadium	7440-62-2	62.1		0.0244	0.111	2
06149	Zinc	7440-66-6	77.6		0.621	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0056	J	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	5.5		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	10.3	U	10.3	34.3	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
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	463		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.	7.61		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture CDM	n.a.	12.5		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.

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

Sample Description: DUP04-SA5C-QC-100210 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA5C-QC-100210

LLI Sample # SW 6130719
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:30

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP4 SDG#: DE007-04FD

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	B103091AA	11/05/2010 16:50	Chelsea B Eastep	0.95
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 15:26	Jason M Long	25.88
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030722824	11/03/2010 17:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030722824	11/03/2010 18:21	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030722824	11/03/2010 18:21	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030722824	11/03/2010 18:12	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10308SLB026	11/15/2010 01:30	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/22/2010 02:49	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 21:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 12:51	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 12:54	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 12:51	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 22:21	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 12:51	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 12:51	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 12:51	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 12:51	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 22:21	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 12:51	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 12:51	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 12:54	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 12:51	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:12	Damary Valentin	1

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

Sample Description: **DUP04-SA5C-QC-100210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA5C-QC-100210

LLI Sample # SW 6130719
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:30

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP4 SDG#: DE007-04FD

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	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201B	11/12/2010 23:43	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201A	11/19/2010 19:50	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 14:08	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201B	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201A	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101A	11/05/2010 10:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10307039401A	11/03/2010 14:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162403B	11/04/2010 11:16	William C Schwebel	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-128-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-8.0-9.0

LLI Sample # SW 6130720
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:05

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2889 SDG#: DE007-05

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	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	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

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

Sample Description: **SL-128-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-8.0-9.0

LLI Sample # SW 6130720
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:05

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2889 SDG#: DE007-05

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	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
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	3.5	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	0.67	J	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	17,700		5.20	20.7	1

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

Sample Description: SL-128-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-8.0-9.0

LLI Sample # SW 6130720
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:05

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2889 SDG#: DE007-05

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**	
07914	Boron	7440-42-8	4.60	U	4.60	25.8	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	3,920		6.34	20.7	1
01654	Iron	7439-89-6	21,800		4.87	20.7	1
01656	Lithium	7439-93-2	23.9		0.23	2.1	1
01657	Magnesium	7439-95-4	5,500		2.63	10.3	1
06958	Manganese	7439-96-5	212		0.0806	0.517	1
10145	Phosphorus	7723-14-0	419		0.579	10.3	1
01662	Potassium	7440-09-7	2,060		18.6	51.7	1
01667	Sodium	7440-23-5	330		38.6	103	1
07968	Strontium	7440-24-6	24.4		0.0641	0.517	1
06969	Tin	7440-31-5	2.22	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,460		1.96	5.17	5
10146	Zirconium	7440-67-7	3.48	J	0.868	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.164	J	0.0620	0.207	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	8.70		0.0620	0.414	2
06126	Barium	7440-39-3	102		0.112	0.414	2
06127	Beryllium	7440-41-7	0.647		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.0720	J	0.0372	0.103	2
06131	Chromium	7440-47-3	29.5		0.124	0.414	2
06132	Cobalt	7440-48-4	11.8		0.0207	0.103	2
06133	Copper	7440-50-8	14.8		0.0682	0.414	2
06135	Lead	7439-92-1	7.46		0.0108	0.207	2
06138	Molybdenum	7439-98-7	0.971		0.0517	0.103	2
06139	Nickel	7440-02-0	17.5		0.103	0.414	2
06141	Selenium	7782-49-2	0.0797	J	0.0414	0.414	2
06142	Silver	7440-22-4	0.0615	J	0.0124	0.103	2
06145	Thallium	7440-28-0	0.373		0.0310	0.103	2
06148	Vanadium	7440-62-2	51.2		0.0227	0.103	2
06149	Zinc	7440-66-6	64.4		0.579	3.10	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	2.8		0.86	1.1	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		**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-128-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-8.0-9.0

LLI Sample # SW 6130720
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:05

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2889 SDG#: DE007-05

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.	400	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.	8.76	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture CDM	n.a.	7.0	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	10308SLB026	11/15/2010 01:57	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/22/2010 03:20	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 22:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 12:55	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 12:57	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 12:55	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 22:25	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 12:55	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 12:55	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 12:55	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 12:55	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 22:25	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 12:55	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 12:55	Damary Valentin	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-128-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5C-SB-8.0-9.0

LLI Sample # SW 6130720
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:05

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

A2889 SDG#: DE007-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 12:57	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 12:55	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201B	11/12/2010 22:57	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201B	11/19/2010 21:50	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10315243201A	11/12/2010 14:22	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201B	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101A	11/05/2010 10:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10307039401A	11/03/2010 14:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162403B	11/04/2010 11:16	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: DUP05-SA5C-QC-100210 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5C-QC-100210

LLI Sample # SW 6130721
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:40

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP5 SDG#: DE007-06FD

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	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	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	540	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
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	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	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	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

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

Sample Description: **DUP05-SA5C-QC-100210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5C-QC-100210

LLI Sample # SW 6130721
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:40

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP5 SDG#: DE007-06FD

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	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	0.73	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	J	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	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	0.52	J	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	Bis(2-Ethylhexyl)phthalate	117-81-7	9.5	J	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	0.88	J	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	6.5	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

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

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	0.57	U	0.57	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.

Sample Description: **DUP05-SA5C-QC-100210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5C-QC-100210

LLI Sample # SW 6130721
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:40

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP5 SDG#: DE007-06FD

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	19,100		5.42	21.5	1
07914	Boron	7440-42-8	4.79	U	4.79	26.9	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	3,840		6.60	21.5	1
01654	Iron	7439-89-6	21,900		5.07	21.5	1
01656	Lithium	7439-93-2	28.0		0.24	2.2	1
01657	Magnesium	7439-95-4	5,430		2.74	10.8	1
06958	Manganese	7439-96-5	203		0.0840	0.539	1
10145	Phosphorus	7723-14-0	361		0.603	10.8	1
01662	Potassium	7440-09-7	1,960		19.4	53.9	1
01667	Sodium	7440-23-5	331		40.2	108	1
07968	Strontium	7440-24-6	24.8		0.0668	0.539	1
06969	Tin	7440-31-5	2.43	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,480		2.05	5.39	5
10146	Zirconium	7440-67-7	3.68	J	0.905	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.209	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	7.09		0.0628	0.419	2
06126	Barium	7440-39-3	132		0.113	0.419	2
06127	Beryllium	7440-41-7	0.844		0.0167	0.105	2
06128	Cadmium	7440-43-9	0.244		0.0377	0.105	2
06131	Chromium	7440-47-3	34.1		0.126	0.419	2
06132	Cobalt	7440-48-4	11.3		0.0209	0.105	2
06133	Copper	7440-50-8	15.0		0.0691	0.419	2
06135	Lead	7439-92-1	10.6		0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.370		0.0523	0.105	2
06139	Nickel	7440-02-0	23.6		0.105	0.419	2
06141	Selenium	7782-49-2	0.125	J	0.0419	0.419	2
06142	Silver	7440-22-4	0.0586	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.386		0.0314	0.105	2
06148	Vanadium	7440-62-2	64.9		0.0230	0.105	2
06149	Zinc	7440-66-6	61.1		0.586	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Fluoride by IC (solid)	16984-48-8	4.3		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	Perchlorate in Soil	14797-73-0	9.8	U	9.8	32.6	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: **DUP05-SA5C-QC-100210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5C-QC-100210

LLI Sample # SW 6130721
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:40

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP5 SDG#: DE007-06FD

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.	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		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH	n.a.	8.67	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture CDM	n.a.	8.1	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	10308SLB026	11/15/2010 02:24	Florida A Cimino	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	10308SLA026	11/23/2010 09:36	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10308SLA026	11/04/2010 17:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10308SLB026	11/04/2010 13:30	Olivia I Santiago	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103080005A	11/05/2010 22:27	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103080005A	11/04/2010 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 12:59	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:07	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 12:59	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 22:38	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 12:59	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 12:59	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 12:59	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 12:59	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 22:38	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 12:59	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 12:59	Damary Valentin	1

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

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Analysis Report

Sample Description: DUP05-SA5C-QC-100210 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5C-QC-100210

LLI Sample # SW 6130721
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 14:40

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

ADUP5 SDG#: DE007-06FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:07	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 12:59	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/15/2010 06:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10315315201B	11/13/2010 00:28	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10322322201B	11/19/2010 22:15	William L Hamaker Jr	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10315243201A	11/12/2010 14:42	William L Hamaker Jr	1
01352	Deionized Water Extraction	EPA 300.0	1	10315315201B	11/11/2010 13:30	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101A	11/05/2010 10:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10307039401A	11/03/2010 14:15	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10315243201A	11/11/2010 21:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10308162403B	11/04/2010 11:16	William C Schwebel	1

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

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Analysis Report

Sample Description: TB-110210 Water
SSFL Area IV Collocated Soil Sampling
TB-110210

LLI Sample # WW 6130722
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 16:20

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

TB112 SDG#: DE007-07TB*

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

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Analysis Report

Sample Description: TB-110210 Water
SSFL Area IV Collocated Soil Sampling
TB-110210

LLI Sample # WW 6130722
LLI Group # 1219430
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2010 16:20

Submitted: 11/03/2010 08:50
Reported: 11/29/2010 17:35

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

TB112 SDG#: DE007-07TB*

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	VOCs in Water 8260B	SW-846 8260B	1	Y103121AA	11/08/2010 19:17	Frank A Valla, Jr	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103091AA	11/05/2010 10:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103091AA	11/05/2010 10:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103121AA	11/08/2010 19:17	Frank A Valla, Jr	1

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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

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: B103091AA	Sample number(s): 6130713,6130715-6130717,6130719									
Acetone	6.7	U	6.7	8.0	ug/kg	139		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	91		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	91		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	94		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	110		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	94		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	98		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	97		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103		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	108		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	81		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	97		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	108		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	97		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	72	68	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	100		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	93		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	94		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	103		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	114		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	94		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	109		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	89		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	94		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	84		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	82		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	114	113	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	90		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	89		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100		75-120		

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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. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	107		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	101		61-134		
Methylene Chloride	0.54	J	0.24	4.0	ug/kg	106		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	96		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	97		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	88		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	103		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	101		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	92		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	93		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	110		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	101		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	92		80-120		
Batch number: E103091AA	Sample number(s): 6130722									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101		60-132		
Batch number: E103111AA	Sample number(s): 6130713,6130719									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	104	70-130	4	30
Batch number: E103111AB	Sample number(s): 6130715-6130717									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	95	102	70-130	6	30
Batch number: Y103121AA	Sample number(s): 6130722									
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

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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
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: 10308SLA026 Sample number(s): 6130713-6130717,6130719-6130721

Acenaphthene	0.67	U	0.67	1.7	ug/kg	97	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	89	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	88	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	90	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	108	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	82	66-137
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	120	65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108	84-132
Chrysene	0.33	U	0.33	1.7	ug/kg	95	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	99	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	100	70-130
Bis(2-Ethylhexyl)phthalate	6.3	J	6.0	18	ug/kg	124	67-143

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	82		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		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	90		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	115		56-121		
Batch number: 10308SLB026	Sample number(s): 6130713-6130717,6130719-6130721									
Acenaphthene	17	U	17.	170	ug/kg	91		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	93		75-122		
Aniline	170 U		170.	500	ug/kg	58		10-107		
Anthracene	17	U	17.	170	ug/kg	95		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	33		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	101		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	94		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	95		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	94		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	91		67-125		
Benzoic acid	170 U		170.	500	ug/kg	103		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	99		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	94		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	30		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	80		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	76		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	96		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	92		79-110		
Chrysene	17	U	17.	170	ug/kg	95		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	94		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	81		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	68		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	91		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	95		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	81		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	75		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	92		73-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	92		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	93		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	92		75-117		
Fluoranthene	17	U	17.	170	ug/kg	95		78-116		
Fluorene	17	U	17.	170	ug/kg	89		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	88		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	78		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	94		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	86		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	87		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
Naphthalene	17	U	17.	170	ug/kg	90		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	88		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	79		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	95		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	91		35-106		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	86		58-112		
Pyrene	17	U	17.	170	ug/kg	103		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 103080005A	Sample number(s): 6130713-6130717,6130719-6130721									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	78	71*	75-125	9	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		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	107		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: 103121026001A	Sample number(s): 6130713-6130721									
Antimony	0.0600	U	0.0600	0.200	mg/kg	100		11-208		
Arsenic	0.0937	J	0.0600	0.400	mg/kg	100		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	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	108		82-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Copper	0.0660 U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	102		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	111		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	110		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	107		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	105		78-122		
Batch number: 103121026001B	Sample number(s): 6130713-6130721								
Selenium	0.0400 U	0.0400	0.400	mg/kg	105		79-122		
Batch number: 103121026001C	Sample number(s): 6130713-6130721								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	113		78-122		
Batch number: 103121026001D	Sample number(s): 6130713-6130721								
Barium	0.108 U	0.108	0.400	mg/kg	107		79-121		
Batch number: 103125708004	Sample number(s): 6130713-6130721								
Aluminum	5.03 U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	90		78-110		
Calcium	8.56 J	6.13	20.0	mg/kg	99		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	94		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.52 J	0.560	10.0	mg/kg	109		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3 U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.12 J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	85		85-115		
Zirconium	0.840 U	0.840	5.00	mg/kg	103		80-120		
Batch number: 103125711002	Sample number(s): 6130713-6130721								
Mercury	0.0027 U	0.0027	0.0957	mg/kg	103		88-123		
Batch number: 10315243201A	Sample number(s): 6130713-6130716,6130718-6130721								
Hexavalent Chromium by IC	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10315315201A	Sample number(s): 6130713-6130716,6130718								
Fluoride by IC (solid)	0.80 U	0.80	1.0	mg/kg	103		90-110		
Batch number: 10315315201B	Sample number(s): 6130719-6130721								
Fluoride by IC (solid)	0.80 U	0.80	1.0	mg/kg	103		90-110		
Batch number: 10322322201A	Sample number(s): 6130713-6130714,6130719								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	107		85-115		
Batch number: 10322322201B	Sample number(s): 6130715-6130716,6130718,6130720-6130721								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	107		85-115		
Batch number: 10307039401A	Sample number(s): 6130713-6130715,6130718-6130721								
pH					100		95-105		
Batch number: 10309182101A	Sample number(s): 6130713-6130715,6130718-6130721								
Oxidation Reduction Potential					98		98-102		
Batch number: 10308162403B	Sample number(s): 6130714-6130721								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
CDM Moisture Duplicate					100		80-120		
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		
Batch number: 10309162402A	Sample number(s): 6130713								
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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103091AA	Sample number(s): 6130713,6130715-6130717,6130719 UNSPK: 6130715								
Acetone	211*	233*	15-210	20	30				
Benzene	95	91	55-143	6	30				
Bromobenzene	99	89	43-139	0	30				
Bromochloromethane	108	97	60-137	1	30				
Bromodichloromethane	98	95	53-136	6	30				
Bromoform	99	92	38-124	2	30				
Bromomethane	127	112	42-168	3	30				
2-Butanone	110	118	37-163	17	30				
n-Butylbenzene	96	83	30-146	4	30				
sec-Butylbenzene	98	87	33-157	2	30				
tert-Butylbenzene	98	88	41-152	1	30				
Carbon Tetrachloride	104	99	45-153	4	30				
Chlorobenzene	99	91	49-135	1	30				
Chloroethane	116	107	39-152	1	30				
2-Chloroethyl Vinyl Ether	86	81	32-139	4	30				
Chloroform	102	97	61-142	5	30				
Chloromethane	120	110	51-163	1	30				
2-Chlorotoluene	97	86	42-146	2	30				
4-Chlorotoluene	99	88	39-145	2	30				
1,2-Dibromo-3-chloropropane	95	83	30-139	5	30				
Dibromochloromethane	104	95	51-128	0	30				
1,2-Dibromoethane	101	92	54-129	1	30				
Dibromomethane	102	98	57-130	6	30				
1,2-Dichlorobenzene	98	86	36-133	3	30				
1,3-Dichlorobenzene	96	84	34-134	3	30				
1,4-Dichlorobenzene	96	85	35-136	4	30				
Dichlorodifluoromethane	101	87	26-151	6	30				
1,1-Dichloroethane	94	91	63-142	6	30				
1,2-Dichloroethane	106	102	68-131	6	30				
1,1-Dichloroethene	112	108	61-149	5	30				
cis-1,2-Dichloroethene	97	94	60-136	7	30				
trans-1,2-Dichloroethene	112	109	59-142	6	30				
1,2-Dichloropropane	94	92	62-135	7	30				
1,3-Dichloropropane	97	91	58-129	3	30				
2,2-Dichloropropane	103	100	53-147	7	30				
1,1-Dichloropropene	96	93	54-145	6	30				
cis-1,3-Dichloropropene	88	87	51-131	8	30				
trans-1,3-Dichloropropene	90	85	49-129	4	30				
Ethylbenzene	98	91	44-141	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Freon 113	118	112	56-156	4	30				
Hexachlorobutadiene	93	79	10-155	8	30				
2-Hexanone	104	109	32-160	15	30				
Isopropylbenzene	97	90	38-144	2	30				
p-Isopropyltoluene	99	88	29-152	2	30				
Methyl Tertiary Butyl Ether	115	111	55-129	6	30				
4-Methyl-2-pentanone	108	98	46-139	1	30				
Methylene Chloride	128	108	61-141	6	30				
n-Propylbenzene	98	90	39-157	2	30				
Styrene	101	92	35-134	0	30				
1,1,1,2-Tetrachloroethane	103	94	52-130	1	30				
1,1,2,2-Tetrachloroethane	97	87	40-152	1	30				
Tetrachloroethene	104	95	42-149	1	30				
Toluene	95	88	50-146	2	30				
1,2,3-Trichlorobenzene	82	73	10-140	3	30				
1,2,4-Trichlorobenzene	78	71	10-136	1	30				
1,1,1-Trichloroethane	103	99	64-142	6	30				
1,1,2-Trichloroethane	101	93	54-139	1	30				
Trichloroethene	98	93	53-144	4	30				
Trichlorofluoromethane	139	120	47-163	5	30				
1,2,3-Trichloropropane	105	93	45-154	3	30				
1,2,4-Trimethylbenzene	100	89	37-149	2	30				
1,3,5-Trimethylbenzene	98	88	38-150	1	30				
Vinyl Chloride	118	105	50-154	2	30				
m+p-Xylene	106	95	44-137	1	30				
o-Xylene	95	88	42-137	2	30				
Batch number: E103091AA	Sample number(s): 6130722 UNSPK: P130634								
1,4-Dioxane	103	103	50-150	0	30				
Batch number: E103111AA	Sample number(s): 6130713,6130719 UNSPK: 6130715								
1,4-Dioxane	99	96	70-130	3	30				
Batch number: E103111AB	Sample number(s): 6130715-6130717 UNSPK: 6130715								
1,4-Dioxane	99	96	70-130	3	30				
Batch number: 10308SLA026	Sample number(s): 6130713-6130717,6130719-6130721 UNSPK: 6130715								
Acenaphthene	84	96	63-105	13	30				
Acenaphthylene	80	84	55-126	5	30				
Anthracene	82	88	46-136	8	30				
Benzo(a)anthracene	89	95	39-144	7	30				
Benzo(a)pyrene	82	85	34-156	4	30				
Benzo(b)fluoranthene	93	85	43-155	9	30				
Benzo(g,h,i)perylene	55	103	33-141	61*	30				
Benzo(k)fluoranthene	92	79	42-144	15	30				
Butylbenzylphthalate	110	118	73-140	7	30				
Di-n-butylphthalate	98	98	78-160	0	30				
Chrysene	90	97	29-156	8	30				
Dibenz(a,h)anthracene	69	99	41-130	36*	30				
Diethylphthalate	95	105	87-131	10	30				
Dimethylphthalate	95	99	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	143	126	39-167	11	30				
Fluoranthene	70	74	26-166	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluorene	84	88	45-121	5	30				
Indeno(1,2,3-cd)pyrene	64	99	21-143	42*	30				
1-Methylnaphthalene	85	87	72-123	3	30				
2-Methylnaphthalene	76	78	28-121	3	30				
Naphthalene	81	85	61-102	4	30				
N-Nitrosodimethylamine	86	98	48-113	13	30				
Di-n-octylphthalate	250*	89	40-192	83*	30				
Phenanthrene	84	90	12-165	7	30				
Pyrene	99	102	15-153	3	30				
Batch number: 10308SLB026	Sample number(s): 6130713-6130717,6130719-6130721 UNSPK: 6130715								
Acenaphthene	89	91	75-115	2	30				
Acenaphthylene	92	94	49-126	2	30				
Aniline	68	57	14-114	17	30				
Anthracene	97	94	75-115	3	30				
Benzidine	23*	0*	35-141	200*	30				
Benzo(a)anthracene	102	97	65-122	5	30				
Benzo(a)pyrene	95	93	57-126	2	30				
Benzo(b)fluoranthene	95	92	59-125	4	30				
Benzo(g,h,i)perylene	96	95	59-127	1	30				
Benzo(k)fluoranthene	94	91	56-132	2	30				
Benzoic acid	80	61	10-173	28	30				
Benzyl alcohol	100	95	55-123	5	30				
4-Bromophenyl-phenylether	101	97	67-129	5	30				
Butylbenzylphthalate	99	96	73-134	3	30				
Di-n-butylphthalate	91	89	67-123	2	30				
Carbazole	97	95	64-120	2	30				
4-Chloro-3-methylphenol	90	90	53-130	1	30				
4-Chloroaniline	54	50	23-95	8	30				
bis(2-Chloroethoxy)methane	87	86	54-117	1	30				
bis(2-Chloroethyl)ether	86	82	60-116	5	30				
bis(2-Chloroisopropyl)ether	80	78	55-142	4	30				
2-Chloronaphthalene	107	112	50-141	5	30				
2-Chlorophenol	97	93	73-121	4	30				
4-Chlorophenyl-phenylether	91	92	64-119	1	30				
Chrysene	99	94	62-128	5	30				
Dibenz(a,h)anthracene	95	93	65-125	2	30				
Dibenzofuran	91	93	71-112	2	30				
1,2-Dichlorobenzene	87	82	66-108	6	30				
1,3-Dichlorobenzene	84	79	63-109	6	30				
1,4-Dichlorobenzene	86	78	53-113	11	30				
3,3'-Dichlorobenzidine	78	74	25-123	5	30				
2,4-Dichlorophenol	93	94	78-117	2	30				
Diethylphthalate	87	89	66-118	2	30				
2,4-Dimethylphenol	92	93	56-130	1	30				
3,5-Dimethylphenol	95	95	70-130	0	30				
Dimethylphthalate	91	91	64-118	0	30				
4,6-Dinitro-2-methylphenol	86	78	10-148	10	30				
2,4-Dinitrophenol	72	60	20-143	19	30				
2,4-Dinitrotoluene	90	91	57-114	1	30				
2,6-Dinitrotoluene	92	95	69-123	4	30				
1,2-Diphenylhydrazine	96	93	71-129	3	30				
bis(2-Ethylhexyl)phthalate	94	91	63-122	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	96	93	59-122	3	30				
Fluorene	90	90	60-125	1	30				
Hexachlorobenzene	98	95	61-111	3	30				
Hexachlorobutadiene	87	88	62-120	1	30				
Hexachlorocyclopentadiene	85	85	10-153	0	30				
Hexachloroethane	82	78	57-109	5	30				
Indeno(1,2,3-cd)pyrene	95	93	61-126	2	30				
Isophorone	86	85	51-118	1	30				
1-Methylnaphthalene	91	92	73-112	2	30				
2-Methylnaphthalene	84	85	76-114	2	30				
2-Methylphenol	94	88	47-142	6	30				
4-Methylphenol	97	94	55-126	3	30				
Naphthalene	89	88	72-116	1	30				
2-Nitroaniline	95	97	67-125	2	30				
3-Nitroaniline	92	88	59-122	5	30				
4-Nitroaniline	74	79	52-112	7	30				
Nitrobenzene	87	87	51-114	0	30				
2-Nitrophenol	92	93	74-115	2	30				
4-Nitrophenol	93	92	39-133	0	30				
N-Nitroso-di-n-propylamine	85	81	60-116	5	30				
N-Nitrosodimethylamine	88	85	47-116	3	30				
N-Nitrosodiphenylamine	100	96	86-145	4	30				
Di-n-octylphthalate	95	94	56-126	1	30				
Pentachlorophenol	94	91	17-149	3	30				
Phenanthrene	95	91	65-125	4	30				
Phenol	93	91	58-126	3	30				
Pyrene	104	100	51-151	4	30				
1,2,4-Trichlorobenzene	88	87	72-115	2	30				
2,4,5-Trichlorophenol	96	98	34-139	2	30				
2,4,6-Trichlorophenol	99	103	49-140	4	30				
Batch number: 103080005A	Sample number(s): 6130713-6130717,6130719-6130721 UNSPK: 6130715								
PCB-1016	91	86	29-146	5	50				
PCB-1260	109	104	39-149	5	50				
Batch number: 103121026001A	Sample number(s): 6130713-6130721 UNSPK: 6130715 BKG: 6130715								
Antimony	61*	54*	75-125	8	20	0.316	0.275	14 (1)	20
Arsenic	104	122	75-125	4	20	7.49	6.96	7	20
Beryllium	92	103	75-125	5	20	0.876	0.908	4	20
Cadmium	140*	127*	75-125	9	20	0.164	0.123	29* (1)	20
Chromium	151*	116	75-125	8	20	32.2	31.7	2	20
Cobalt	108	101	75-125	6	20	7.77	6.50	18	20
Copper	118	103	75-125	7	20	10.1	10.3	2	20
Lead	132*	131*	75-125	0	20	9.73	8.87	9	20
Nickel	123	103	75-125	7	20	18.3	17.6	4	20
Silver	126*	126*	75-125	1	20	0.0816 J	0.0626 J	26* (1)	20
Thallium	143*	118	75-125	12	20	0.342	0.330	4 (1)	20
Vanadium	188 (2)	160 (2)	75-125	4	20	57.3	57.1	0	20
Zinc	129 (2)	82 (2)	75-125	8	20	48.6	48.8	0	20
Batch number: 103121026001B	Sample number(s): 6130713-6130721 UNSPK: 6130715 BKG: 6130715								
Selenium	101	102	75-125	1	20	0.197 J	0.142 J	32* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103121026001C	Sample number(s): 6130713-6130721 UNSPK: 6130715 BKG: 6130715								
Molybdenum	118	114	75-125	3	20	0.428	0.376	13 (1)	20
Batch number: 103121026001D	Sample number(s): 6130713-6130721 UNSPK: 6130715 BKG: 6130715								
Barium	206 (2)	164 (2)	75-125	2	20	150	137	9	20
Batch number: 103125708004	Sample number(s): 6130713-6130721 UNSPK: 6130715 BKG: 6130715								
Aluminum	3713 (2)	2639 (2)	75-125	6	20	29,800	29,000	3	20
Boron	95	94	84-115	0	20	4.36 U	4.36 U	0 (1)	20
Calcium	163 (2)	127 (2)	75-125	3	20	3,620	3,700	2	20
Iron	878 (2)	373 (2)	75-125	2	20	27,500	28,100	2	20
Lithium	101	99	82-114	1	20	27.3	25.0	9	20
Magnesium	228 (2)	109 (2)	75-125	4	20	4,920	4,750	3	20
Manganese	70 (2)	63 (2)	75-125	1	20	224	213	5	20
Phosphorus	101	108	75-125	3	20	134	134	0	20
Potassium	137*	138*	75-125	1	20	2,230	2,230	0	20
Sodium	104	101	75-125	2	20	204	173	16 (1)	20
Strontium	100	99	75-115	0	20	29.0	29.1	0	20
Tin	93	94	80-110	2	20	2.28 J	2.25 J	1 (1)	20
Titanium	196 (2)	61 (2)	75-125	11	20	1,070	773	33*	20
Zirconium	97	97	75-125	1	20	5.56	5.27	5 (1)	20
Batch number: 103125711002	Sample number(s): 6130713-6130721 UNSPK: 6130715 BKG: 6130715								
Mercury	98	98	80-120	5	20	0.0069 J	0.0027 U	200* (1)	20
Batch number: 10315243201A	Sample number(s): 6130713-6130716,6130718-6130721 UNSPK: 6130715 BKG: 6130715								
Hexavalent Chromium by IC	89		75-125			0.86 J	0.63 J	30* (1)	20
Batch number: 10315315201A	Sample number(s): 6130713-6130716,6130718 UNSPK: 6130715 BKG: 6130715								
Fluoride by IC (solid)	71*		80-120			2.0	2.1	4 (1)	20
Batch number: 10315315201B	Sample number(s): 6130719-6130721 UNSPK: 6130720 BKG: 6130720								
Fluoride by IC (solid)	93		80-120			2.6	3.9	40* (1)	20
Batch number: 10322322201A	Sample number(s): 6130713-6130714,6130719 UNSPK: P125238 BKG: P125238								
Perchlorate in Soil	114		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10322322201B	Sample number(s): 6130715-6130716,6130718,6130720-6130721 UNSPK: 6130715 BKG: 6130715								
Perchlorate in Soil	114		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10307039401A	Sample number(s): 6130713-6130715,6130718-6130721 BKG: 6130715								
pH						7.31	7.20	2*	1
Batch number: 10309182101A	Sample number(s): 6130713-6130715,6130718-6130721 BKG: 6130715								
Oxidation Reduction Potential						492	496	1	6
Batch number: 10308162403B	Sample number(s): 6130714-6130721 BKG: 6130715								
CDM Moisture Duplicate						12.5	11.8	6	20
Moisture CDM						12.5	11.8	6	20
Moisture CDM						12.5	11.8	6	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10309162402A	Sample number(s): 6130713			BKG: 6130713					
Moisture CDM						11.2	10.7	5	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: B103091AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6130713	118	117	92	83
6130715	115	106	95	77
6130716	106	100	102	98
6130717	107	107	99	98
6130719	111	103	95	80
Blank	114	106	93	84
LCS	108	107	96	96
MS	106	100	102	98
MSD	107	107	99	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1,4-Dioxane by Isotope Dil SIM
Batch number: E103091AA

	Toluene-d8
6130722	102
Blank	100
LCS	100
MS	101
MSD	101
Limits:	80-120

Analysis Name: 1,4-Dioxane by Isotope DL SIM
Batch number: E103111AA

	Toluene-d8
6130713	97
6130719	98
Blank	99
LCS	100
LCSD	99
MS	97
MSD	98
Limits:	70-130

*- 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. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

Surrogate Quality Control

Analysis Name: 1,4-Dioxane by Isotope DL SIM
Batch number: E103111AB

	Toluene-d8
6130715	97
6130716	97
6130717	98
Blank	99
LCS	98
LCSD	98
MS	97
MSD	98
Limits:	70-130

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

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6130722	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: Selected SVOAs in soil by SIM
Batch number: 10308SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6130713	89	76	91
6130714	94	77	91
6130715	84	74	89
6130716	87	77	90
6130717	95	79	88
6130719	97	81	90
6130720	99	82	98
6130721	99	81	95
Blank	92	80	101
LCS	90	77	101
MS	87	77	90
MSD	95	79	88
Limits:	40-130	45-130	45-135

Analysis Name: TCL SW846 Semivolatiles Soil
Batch number: 10308SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6130713	80	84	82	77	83	85
6130714	81	86	89	83	86	89
6130715	80	84	90	81	86	86
6130716	89	94	89	84	88	92
6130717	85	89	93	83	90	85
6130719	84	88	88	82	86	89
6130720	82	85	91	78	88	89
6130721	88	90	90	84	90	89

*- 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. Group Number: 1219430
Reported: 11/29/10 at 05:35 PM

Surrogate Quality Control

Blank	81	84	88	83	88	85
LCS	84	89	95	85	90	88
MS	89	94	89	84	88	92
MSD	85	89	93	83	90	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: PCBs & PCTs in Soil
Batch number: 103080005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6130713	85	88
6130714	103	107
6130715	89	89
6130716	97	97
6130717	91	92
6130719	90	92
6130720	81	89
6130721	85	90
Blank	87	93
LCS	90	101
LCSD	88	96
MS	97	97
MSD	91	92
Limits:	53-139	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 12 19430 6130713-22

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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)* Pamela Hartley

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & 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	Other Instructions and Notes
SL-126-SA5C-SB-4.0-5.0	11.02.10	1044	soil	none	1 X 16 oz. glass jar			X					X														
SL-126-SA5C-SB-4.0-5.0	11.02.10	1044	soil	none	1 X 16 oz. glass jar					X	X	X		X	X												Consider all as one sample.
SL-126-SA5C-SB-4.5	11.02.10	1040	soil	none	4 encore samplers	X	X																				
SL-126-SA5C-SB-9.0-10.0	11.02.10	1046	soil	none	1 X 16 oz. glass jar			X					X														
SL-126-SA5C-SB-9.0-10.0	11.02.10	1046	soil	none	1 X 16 oz. glass jar					X	X	X		X	X												
SL-128-SA5C-SB-4.0-5.0 MS	11.02.10	1400	soil	none	2 X 16 oz. glass jar			X					X														
SL-128-SA5C-SB-4.0-5.0 MS	11.02.10	1400	soil	none	2 X 16 oz. glass jar					X	X	X		X	X												Consider all as one sample. MS/MSD sample
SL-128-SA5C-SB-4.5 MS	11.02.10	1350	soil	none	8 encore samplers	X	X																				
DUP04-SA5C-QC-110210	11.02.10	1430	soil	none	1 X 16 oz. glass jar					X	X	X		X	X												
DUP04-SA5C-QC-110210	11.02.10	1430	soil	none	1 X 16 oz. glass jar			X					X														
DUP04-SA5C-QC-110210	11.02.10	1430	soil	none	4 encore samplers	X	X																				
SL-128-SA5C-SB-8.0-9.0	11.02.10	1405	soil	none	1 X 16 oz. glass jar					X	X	X		X	X												
SL-128-SA5C-SB-8.0-9.0	11.02.10	1405	soil	none	1 X 16 oz. glass jar			X					X														
DUP05-SA5C-QC-110210	11.02.10	1440	soil	none	1 X 16 oz. glass jar					X	X	X		X	X												
DUP05-SA5C-QC-110210	11.02.10	1440	soil	none	1 X 16 oz. glass jar			X					X														Trip Blank
TB-110210	11.01.10	1620	water	HCl	2 x 40 ml vials	X																					

Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Laboratory:
Pamela Hartley	11.02.10 1700				11-3-10 0850	Kristin Langley	Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Airbill No.**	

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ 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

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

Inorganic Qualifiers

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

REVISED

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 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/04/2010
Group Number: 1219732
SDG: DE008
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-118-SA5C-SB-4.0-5.0 Grab Soil	6132121
SL-118-SA5C-SB-9.0-10.0 Grab Soil	6132122
SL-119-SA5C-SB-4.0-5.0 Grab Soil	6132123
SL-119-SA5C-SB-6.0-7.0 Grab Soil	6132124
SL-120-SA5C-SB-4.0-5.0 Grab Soil	6132125
SL-120-SA5C-SB-9.0-10.0 Grab Soil	6132126
SL-130-SA5C-SB-4.0-5.0 Grab Soil	6132127
SL-130-SA5C-SB-9.0-10.0 Grab Soil	6132128
TB-110310 Water	6132129

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

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

Lancaster Laboratories

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

Analysis Report

REVISED

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

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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

Analysis Report

REVISED

Sample Description: **SL-118-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132121
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-4 SDG#: DE008-01

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	7.6	U	7.6	9.1	1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.6	1.02
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6	1.02
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6	1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6	1.02
06192	Bromoform	75-25-2	0.46	U	0.46	4.6	1.02
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6	1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1	1.02
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6	1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6	1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6	1.02
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6	1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.6	1.02
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6	1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6	1.02
06192	Chloroform	67-66-3	0.16	J	0.14	4.6	1.02
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6	1.02
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6	1.02
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6	1.02
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7	1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6	1.02
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6	1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6	1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6	1.02
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6	1.02
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6	1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6	1.02
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6	1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6	1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6	1.02
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.6	1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6	1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6	1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6	1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6	1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6	1.02
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6	1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6	1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6	1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6	1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.6	1.02
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7	1.02
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6	1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1	1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6	1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.6	1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6	1.02
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1	1.02
06192	Methylene Chloride	75-09-2	4.8		0.27	4.6	1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6	1.02

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

Sample Description: **SL-118-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132121
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-4 SDG#: DE008-01

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	1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.6	1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6	1.02
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6	1.02
06192	Toluene	108-88-3	0.18	J	0.09	4.6	1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6	1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.6	1.02
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6	1.02
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6	1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6	1.02
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6	1.02
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6	1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6	1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6	1.02
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6	1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.6	1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6	1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17	25.2
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

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

Sample Description: **SL-118-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132121
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-4 SDG#: DE008-01

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	23	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
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

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

Sample Description: SL-118-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132121
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-4 SDG#: DE008-01

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	0.74	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

The LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. 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	33,100		5.49	21.8	1
07914	Boron	7440-42-8	4.86	U	4.86	27.3	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	6,550		6.69	21.8	1
01654	Iron	7439-89-6	31,200		25.7	109	5
01656	Lithium	7439-93-2	28.5		0.24	2.2	1
01657	Magnesium	7439-95-4	6,560		2.77	10.9	1
06958	Manganese	7439-96-5	236		0.0852	0.546	1
10145	Phosphorus	7723-14-0	214		0.611	10.9	1
01662	Potassium	7440-09-7	3,190		19.7	54.6	1
01667	Sodium	7440-23-5	720		40.7	109	1
07968	Strontium	7440-24-6	44.1		0.0677	0.546	1
06969	Tin	7440-31-5	2.67	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,370		2.07	5.46	5
10146	Zirconium	7440-67-7	6.75		0.917	5.46	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.177	J	0.0649	0.216	2

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

Sample Description: SL-118-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132121
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-4 SDG#: DE008-01

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**	
	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	7.36	0.0649	0.432	2
06126	Barium	7440-39-3	95.9	0.117	0.432	2
06127	Beryllium	7440-41-7	0.596	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.293	0.0389	0.108	2
06131	Chromium	7440-47-3	29.6	0.130	0.432	2
06132	Cobalt	7440-48-4	7.66	0.0216	0.108	2
06133	Copper	7440-50-8	14.8	0.0714	0.432	2
06135	Lead	7439-92-1	8.89	0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.303	0.0541	0.108	2
06139	Nickel	7440-02-0	16.8	0.108	0.432	2
06141	Selenium	7782-49-2	0.105 J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0346 J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.334	0.0324	0.108	2
06148	Vanadium	7440-62-2	58.0	0.0238	0.108	2
06149	Zinc	7440-66-6	53.6	0.605	3.24	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	11a Anions by 300.0 - Fluoride	16984-48-8	13.8	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	0.30 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	462	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.	8.19	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content 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.					

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

Sample Description: **SL-118-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132121
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-4 SDG#: DE008-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-118-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	B103091AA	11/05/2010 17:13	Chelsea B Eastep	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 15:46	Jason M Long	25.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030822839	11/04/2010 23:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030822839	11/04/2010 23:24	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030822839	11/04/2010 23:24	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030822839	11/04/2010 23:05	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 12:52	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLC026	11/22/2010 15:49	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLC026	11/08/2010 16:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103140018A	11/11/2010 19:58	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 03:20	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	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	103125708004	11/13/2010 13:03	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:10	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:03	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/16/2010 09:29	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:03	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:03	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:03	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:03	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 22:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:03	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:03	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:10	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:03	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:49	Choon Y Tian	2

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

Sample Description: **SL-118-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132121
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-4 SDG#: DE008-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201A	11/19/2010 22:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10322322201B	11/19/2010 22:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10319243201A	11/16/2010 10:15	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201A	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101B	11/05/2010 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039401A	11/05/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-118-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-9.0-10.0

LLI Sample # SW 6132122
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-9 SDG#: DE008-02

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	3,800	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	bis(2-Ethylhexyl)phthalate	117-81-7	21	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

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

Sample Description: **SL-118-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-9.0-10.0

LLI Sample # SW 6132122
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-9 SDG#: DE008-02

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	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	0.77	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	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 LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. All results are reported from the original extract. Similar results were obtained in both extracts.

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

Sample Description: **SL-118-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-9.0-10.0

LLI Sample # SW 6132122
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-9 SDG#: DE008-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	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	5.57	22.2	1
07914	Boron	7440-42-8	0.986 U	0.986	5.54	1
01650	Calcium	7440-70-2	67,500	34.0	111	5
01654	Iron	7439-89-6	23,000	5.22	22.2	1
01656	Lithium	7439-93-2	19.8	0.24	2.2	1
01657	Magnesium	7439-95-4	5,040	2.81	11.1	1
06958	Manganese	7439-96-5	250	0.0864	0.554	1
10145	Phosphorus	7723-14-0	416	0.620	11.1	1
01662	Potassium	7440-09-7	2,410	19.9	55.4	1
01667	Sodium	7440-23-5	478	41.3	111	1
07968	Strontium	7440-24-6	106	0.0687	0.554	1
06969	Tin	7440-31-5	2.11 J	1.11	11.1	1
06970	Titanium	7440-32-6	1,150	2.10	5.54	5
10146	Zirconium	7440-67-7	5.89	0.931	5.54	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.325	0.0658	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	10.1	0.0658	0.439	2
06126	Barium	7440-39-3	117	0.118	0.439	2
06127	Beryllium	7440-41-7	0.675	0.0176	0.110	2
06128	Cadmium	7440-43-9	0.423	0.0395	0.110	2
06131	Chromium	7440-47-3	31.4	0.132	0.439	2
06132	Cobalt	7440-48-4	14.5	0.0219	0.110	2
06133	Copper	7440-50-8	18.2	0.0724	0.439	2
06135	Lead	7439-92-1	14.1	0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.686	0.0549	0.110	2
06139	Nickel	7440-02-0	20.9	0.110	0.439	2
06141	Selenium	7782-49-2	0.110 J	0.0439	0.439	2
06142	Silver	7440-22-4	0.0428 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.301	0.0329	0.110	2
06148	Vanadium	7440-62-2	65.7	0.0241	0.110	2
06149	Zinc	7440-66-6	62.3	0.614	3.29	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	11a Anions by 300.0 - Fluoride	16984-48-8	5.8	0.92	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6	1

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

Sample Description: SL-118-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-9.0-10.0

LLI Sample # SW 6132122
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-9 SDG#: DE008-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	441		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.	8.56		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.2		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	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 13:18	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLC026	11/22/2010 17:22	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLC026	11/08/2010 16:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 03:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 13:07	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 23:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103125708004	11/15/2010 22:49	John W Yanzuk II	5
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 22:45	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:07	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:07	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:07	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:07	Damary Valentin	1

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

Sample Description: **SL-118-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-9.0-10.0

LLI Sample # SW 6132122
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

118-9 SDG#: DE008-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 22:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:07	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:07	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:13	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:07	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201A	11/20/2010 01:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10322322201B	11/19/2010 23:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10319243201A	11/16/2010 10:22	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201A	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101B	11/05/2010 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039401A	11/05/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-119-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132123
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1194- SDG#: DE008-03

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	6.8	U	6.8	8.1	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	0.33	U	0.33	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	0.25	U	0.25	4.1	0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1	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	0.16	U	0.16	4.1	0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	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	0.30	U	0.30	4.1	0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1	0.93
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1	0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1	0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1	0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1	0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1	0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1	0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1	0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	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	0.16	U	0.16	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	0.15	U	0.15	4.1	0.93
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.1	0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	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	0.17	U	0.17	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	0.17	U	0.17	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	0.16	U	0.16	4.1	0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	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	0.51	U	0.51	5.1	0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1	0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1	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	0.21	U	0.21	4.1	0.93
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1	0.93
06192	Methylene Chloride	75-09-2	3.0	J	0.24	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-119-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132123
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1194- SDG#: DE008-03

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	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	0.23	U	0.23	4.1	0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1	0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.1	0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1	0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1	0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1	0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1	0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1	0.93
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1	0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	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	0.20	U	0.20	4.1	0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1	0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1	0.93
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	15	23.5
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-119-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132123
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1194- SDG#: DE008-03

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	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	Bis(2-Ethylhexyl)phthalate	117-81-7	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

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

Sample Description: **SL-119-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132123
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1194- SDG#: DE008-03

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	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 LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. 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	24,300		5.46	21.7	1
07914	Boron	7440-42-8	4.83	U	4.83	27.1	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,700		6.65	21.7	1
01654	Iron	7439-89-6	27,900		5.11	21.7	1
01656	Lithium	7439-93-2	22.8		0.24	2.2	1
01657	Magnesium	7439-95-4	5,230		2.75	10.8	1
06958	Manganese	7439-96-5	688		0.0846	0.542	1
10145	Phosphorus	7723-14-0	306		0.607	10.8	1
01662	Potassium	7440-09-7	3,070		19.5	54.2	1
01667	Sodium	7440-23-5	420		40.5	108	1
07968	Strontium	7440-24-6	34.0		0.0672	0.542	1
06969	Tin	7440-31-5	2.45	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,230		2.06	5.42	5
10146	Zirconium	7440-67-7	6.15		0.911	5.42	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.173	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.						

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

Sample Description: **SL-119-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132123
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1194- SDG#: DE008-03

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**	
06125	Arsenic	7440-38-2	8.59	0.0626	0.417	2
06126	Barium	7440-39-3	143	0.113	0.417	2
06127	Beryllium	7440-41-7	0.668	0.0167	0.104	2
06128	Cadmium	7440-43-9	0.231	0.0375	0.104	2
06131	Chromium	7440-47-3	32.6	0.125	0.417	2
06132	Cobalt	7440-48-4	14.0	0.0209	0.104	2
06133	Copper	7440-50-8	15.4	0.0688	0.417	2
06135	Lead	7439-92-1	13.9	0.0108	0.209	2
06138	Molybdenum	7439-98-7	0.436	0.0521	0.104	2
06139	Nickel	7440-02-0	21.0	0.104	0.417	2
06141	Selenium	7782-49-2	0.0851 J	0.0417	0.417	2
06142	Silver	7440-22-4	0.0573 J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.324	0.0313	0.104	2
06148	Vanadium	7440-62-2	64.8	0.0229	0.104	2
06149	Zinc	7440-66-6	63.8	0.584	3.13	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0037 J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.0	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	32.5	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
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	483	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.	7.75	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.8	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.					

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

Sample Description: **SL-119-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132123
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1194- SDG#: DE008-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-119-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	B103091AA	11/05/2010 17:36	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 16:05	Jason M Long	23.5
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030822839	11/04/2010 23:11	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030822839	11/04/2010 23:24	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030822839	11/04/2010 23:24	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030822839	11/04/2010 23:09	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 13:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLC026	11/22/2010 17:53	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLC026	11/08/2010 16:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 05:48	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 13:12	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:16	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:12	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 22:52	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:12	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:12	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:12	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:12	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 22:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:12	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:12	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:16	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:12	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/14/2010 01:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132123
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1194- SDG#: DE008-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201A	11/20/2010 01:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10322322201B	11/19/2010 23:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10319243201A	11/16/2010 11:42	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201A	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101B	11/05/2010 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039401A	11/05/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-119-SA5C-SB-6.0-7.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-6.0-7.0

LLI Sample # SW 6132124
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1196- SDG#: DE008-04

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	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	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

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

Sample Description: **SL-119-SA5C-SB-6.0-7.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-6.0-7.0

LLI Sample # SW 6132124
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1196- SDG#: DE008-04

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	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
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 LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. All results are reported from the original extract. Similar results were obtained in both extracts.

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

Sample Description: **SL-119-SA5C-SB-6.0-7.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-6.0-7.0

LLI Sample # SW 6132124
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1196- SDG#: DE008-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	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	13,000		5.23	20.8	1
07914	Boron	7440-42-8	4.63	U	4.63	26.0	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	43,200		6.37	20.8	1
01654	Iron	7439-89-6	16,700		4.90	20.8	1
01656	Lithium	7439-93-2	18.0		0.23	2.1	1
01657	Magnesium	7439-95-4	4,160		2.64	10.4	1
06958	Manganese	7439-96-5	231		0.0811	0.520	1
10145	Phosphorus	7723-14-0	402		0.582	10.4	1
01662	Potassium	7440-09-7	2,040		18.7	52.0	1
01667	Sodium	7440-23-5	236		38.8	104	1
07968	Strontium	7440-24-6	43.9		0.0644	0.520	1
06969	Tin	7440-31-5	2.19	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,060		1.98	5.20	5
10146	Zirconium	7440-67-7	2.90	J	0.873	5.20	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.171	J	0.0630	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	6.32		0.0630	0.420	2
06126	Barium	7440-39-3	77.8		0.113	0.420	2
06127	Beryllium	7440-41-7	0.545		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.190		0.0378	0.105	2
06131	Chromium	7440-47-3	23.6		0.126	0.420	2
06132	Cobalt	7440-48-4	11.9		0.0210	0.105	2
06133	Copper	7440-50-8	11.8		0.0693	0.420	2
06135	Lead	7439-92-1	5.86		0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.541		0.0525	0.105	2
06139	Nickel	7440-02-0	16.1		0.105	0.420	2
06141	Selenium	7782-49-2	0.0509	J	0.0420	0.420	2
06142	Silver	7440-22-4	0.0425	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.287		0.0315	0.105	2
06148	Vanadium	7440-62-2	43.0		0.0231	0.105	2
06149	Zinc	7440-66-6	52.5		0.588	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.86	1.1	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

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

Sample Description: SL-119-SA5C-SB-6.0-7.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-6.0-7.0

LLI Sample # SW 6132124
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1196- SDG#: DE008-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**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
	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	22a pH by 9045C	n.a.	8.73		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.5		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	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 14:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLC026	11/22/2010 18:24	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLC026	11/08/2010 16:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 06:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 13:16	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:19	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:16	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 22:56	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:16	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:16	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:16	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:16	Damary Valentin	1

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

Sample Description: **SL-119-SA5C-SB-6.0-7.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-6.0-7.0

LLI Sample # SW 6132124
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

1196- SDG#: DE008-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 22:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:16	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:16	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:19	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:16	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201A	11/20/2010 01:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10322322201B	11/19/2010 23:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10319243201A	11/16/2010 12:10	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201A	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101B	11/05/2010 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039401A	11/05/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1

Lancaster Laboratories

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

Analysis Report

REVISED

Sample Description: **SL-120-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132125
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-4 SDG#: DE008-05

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	6.8	U	6.8	8.2	0.95
06192	Benzene	71-43-2	0.10	U	0.10	4.1	0.95
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1	0.95
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1	0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1	0.95
06192	Bromoform	75-25-2	0.41	U	0.41	4.1	0.95
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1	0.95
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2	0.95
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1	0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1	0.95
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1	0.95
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1	0.95
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1	0.95
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1	0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1	0.95
06192	Chloroform	67-66-3	0.19	J	0.12	4.1	0.95
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1	0.95
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1	0.95
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1	0.95
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1	0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1	0.95
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1	0.95
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1	0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1	0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1	0.95
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1	0.95
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1	0.95
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1	0.95
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1	0.95
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1	0.95
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1	0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1	0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1	0.95
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1	0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1	0.95
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1	0.95
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1	0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1	0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1	0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1	0.95
06192	Freon 113	76-13-1	0.11	U	0.11	4.1	0.95
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1	0.95
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1	0.95
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2	0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1	0.95
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1	0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1	0.95
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2	0.95
06192	Methylene Chloride	75-09-2	15		0.25	4.1	0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1	0.95

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

Sample Description: SL-120-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132125
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-4 SDG#: DE008-05

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	Styrene	100-42-5	0.10	U	0.10	4.1	0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1	0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1	0.95
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1	0.95
06192	Toluene	108-88-3	0.09	J	0.08	4.1	0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1	0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1	0.95
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1	0.95
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1	0.95
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1	0.95
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1	0.95
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1	0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1	0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1	0.95
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1	0.95
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1	0.95
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1	0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17	26.88
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-120-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132125
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-4 SDG#: DE008-05

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	27	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-120-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132125
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-4 SDG#: DE008-05

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	0.72	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 LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. 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	21,600		5.33	21.2	1
07914	Boron	7440-42-8	4.71	U	4.71	26.5	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	3,050		6.49	21.2	1
01654	Iron	7439-89-6	21,500		4.99	21.2	1
01656	Lithium	7439-93-2	16.7		0.23	2.1	1
01657	Magnesium	7439-95-4	4,050		2.69	10.6	1
06958	Manganese	7439-96-5	580		0.0826	0.529	1
10145	Phosphorus	7723-14-0	228		0.593	10.6	1
01662	Potassium	7440-09-7	3,850		19.1	52.9	1
01667	Sodium	7440-23-5	122		39.5	106	1
07968	Strontium	7440-24-6	26.7		0.0656	0.529	1
06969	Tin	7440-31-5	2.39	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,280		2.01	5.29	5
10146	Zirconium	7440-67-7	3.58	J	0.889	5.29	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.137	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.						

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

Sample Description: **SL-120-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132125
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-4 SDG#: DE008-05

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**	
06125	Arsenic	7440-38-2	6.09	0.0648	0.432	2
06126	Barium	7440-39-3	116	0.117	0.432	2
06127	Beryllium	7440-41-7	0.637	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.272	0.0389	0.108	2
06131	Chromium	7440-47-3	25.7	0.130	0.432	2
06132	Cobalt	7440-48-4	9.86	0.0216	0.108	2
06133	Copper	7440-50-8	15.2	0.0713	0.432	2
06135	Lead	7439-92-1	9.64	0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.803	0.0540	0.108	2
06139	Nickel	7440-02-0	16.7	0.108	0.432	2
06141	Selenium	7782-49-2	0.196 J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0695 J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.366	0.0324	0.108	2
06148	Vanadium	7440-62-2	47.9	0.0238	0.108	2
06149	Zinc	7440-66-6	55.8	0.605	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.86	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	15.6 J	9.7	32.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	575	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.	5.95	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	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.					

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

Sample Description: **SL-120-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132125
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-4 SDG#: DE008-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-120-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	B103091AA	11/05/2010 17:58	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 16:25	Jason M Long	26.88
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030822839	11/04/2010 23:15	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030822839	11/04/2010 23:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030822839	11/04/2010 23:25	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030822839	11/04/2010 23:13	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 14:35	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLC026	11/22/2010 18:55	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLC026	11/08/2010 16:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 06:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 13:20	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:23	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:20	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 23:00	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:20	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:20	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:20	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:45	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:20	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 23:00	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:20	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:20	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:23	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:20	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2

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

Sample Description: SL-120-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132125
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-4 SDG#: DE008-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201A	11/20/2010 02:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10322322201B	11/20/2010 00:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10319243201A	11/16/2010 12:31	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201A	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101B	11/05/2010 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039401A	11/05/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1

Sample Description: **SL-120-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-9.0-10.0

LLI Sample # SW 6132126
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:15 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-9 SDG#: DE008-06

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	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	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	39	U	39	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	39	U	39	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	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	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	39	U	39	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
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

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

Sample Description: **SL-120-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-9.0-10.0

LLI Sample # SW 6132126
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:15 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-9 SDG#: DE008-06

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	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	0.39	U	0.39	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	0.79	U	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	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	0.79	U	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	0.39	U	0.39	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	Bis(2-Ethylhexyl)phthalate	117-81-7	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
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	6a Perchlorate EPA 6850	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	0.61	U	0.61	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	2.7		0.39	2.0	1
10225	PCB-1260	11096-82-5	1.2	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 LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC

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

Sample Description: **SL-120-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-9.0-10.0

LLI Sample # SW 6132126
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:15 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-9 SDG#: DE008-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	limits, but the LCS results from the reextraction are within the limits. 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	40,100		5.82	23.1	1
07914	Boron	7440-42-8	5.15	U	5.15	28.9	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	16,100		7.10	23.1	1
01654	Iron	7439-89-6	39,400		27.3	116	5
01656	Lithium	7439-93-2	40.6		0.25	2.3	1
01657	Magnesium	7439-95-4	7,790		2.94	11.6	1
06958	Manganese	7439-96-5	526		0.0903	0.579	1
10145	Phosphorus	7723-14-0	301		0.648	11.6	1
01662	Potassium	7440-09-7	3,280		20.8	57.9	1
01667	Sodium	7440-23-5	966		43.2	116	1
07968	Strontium	7440-24-6	53.9		0.0718	0.579	1
06969	Tin	7440-31-5	2.73	J	1.16	11.6	1
06970	Titanium	7440-32-6	1,280		2.20	5.79	5
10146	Zirconium	7440-67-7	7.34		0.972	5.79	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.213	J	0.0701	0.234	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	7.76		0.0701	0.468	2
06126	Barium	7440-39-3	321		0.316	1.17	5
06127	Beryllium	7440-41-7	0.826		0.0187	0.117	2
06128	Cadmium	7440-43-9	0.533		0.0421	0.117	2
06131	Chromium	7440-47-3	33.5		0.140	0.468	2
06132	Cobalt	7440-48-4	7.39		0.0234	0.117	2
06133	Copper	7440-50-8	15.6		0.0772	0.468	2
06135	Lead	7439-92-1	9.49		0.0122	0.234	2
06138	Molybdenum	7439-98-7	0.403		0.0584	0.117	2
06139	Nickel	7440-02-0	17.7		0.117	0.468	2
06141	Selenium	7782-49-2	0.0468	U	0.0468	0.468	2
06142	Silver	7440-22-4	0.0604	J	0.0140	0.117	2
06145	Thallium	7440-28-0	0.304		0.0351	0.117	2
06148	Vanadium	7440-62-2	62.7		0.0257	0.117	2
06149	Zinc	7440-66-6	54.8		0.655	3.51	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**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.9		0.94	1.2	1

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

Sample Description: SL-120-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-9.0-10.0

LLI Sample # SW 6132126
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:15 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-9 SDG#: DE008-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2	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.	8.32		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.3		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	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 15:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLC026	11/22/2010 19:26	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLC026	11/08/2010 16:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103140018A	11/11/2010 20:16	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 06:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	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	103125708004	11/13/2010 13:24	Damary Valentin	1

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

Sample Description: **SL-120-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-9.0-10.0

LLI Sample # SW 6132126
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:15 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-9 SDG#: DE008-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:26	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:24	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 23:08	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:24	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:24	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:24	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:48	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:24	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 23:04	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:24	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:24	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:26	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:24	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/15/2010 06:45	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201A	11/20/2010 02:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10322322201B	11/20/2010 00:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10319243201A	11/16/2010 12:45	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201A	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101B	11/05/2010 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039401A	11/05/2010 10:15	Michelle L Lalli	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-120-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-9.0-10.0

LLI Sample # SW 6132126
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:15 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

120-9 SDG#: DE008-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-130-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132127
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-4 SDG#: DE008-07

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	8.0	U	8.0	9.6	1.06
06192	Benzene	71-43-2	0.12	U	0.12	4.8	1.06
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.8	1.06
06192	Bromochloromethane	74-97-5	0.40	U	0.40	4.8	1.06
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8	1.06
06192	Bromoform	75-25-2	0.48	U	0.48	4.8	1.06
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8	1.06
06192	2-Butanone	78-93-3	1.5	U	1.5	9.6	1.06
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8	1.06
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8	1.06
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8	1.06
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8	1.06
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8	1.06
06192	Chloroethane	75-00-3	0.16	U	0.16	4.8	1.06
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8	1.06
06192	Chloroform	67-66-3	0.14	U	0.14	4.8	1.06
06192	Chloromethane	74-87-3	0.40	U	0.40	4.8	1.06
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8	1.06
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8	1.06
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0	1.06
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.84	U	0.84	4.8	1.06
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8	1.06
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8	1.06
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8	1.06
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8	1.06
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8	1.06
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8	1.06
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8	1.06
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8	1.06
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8	1.06
06192	1,1-Dichloroethene	75-35-4	0.47	U	0.47	4.8	1.06
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8	1.06
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8	1.06
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8	1.06
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8	1.06
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8	1.06
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.8	1.06
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8	1.06
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8	1.06
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.8	1.06
06192	Freon 113	76-13-1	0.13	U	0.13	4.8	1.06
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0	1.06
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8	1.06
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.6	1.06
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8	1.06
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8	1.06
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8	1.06
06192	4-Methyl-2-pentanone	108-10-1	0.47	U	0.47	9.6	1.06
06192	Methylene Chloride	75-09-2	3.3	J	0.29	4.8	1.06
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8	1.06

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

Sample Description: **SL-130-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132127
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-4 SDG#: DE008-07

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	Styrene	100-42-5	0.12	U	0.12	4.8	1.06
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8	1.06
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.8	1.06
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8	1.06
06192	Toluene	108-88-3	0.1	U	0.1	4.8	1.06
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8	1.06
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.8	1.06
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8	1.06
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8	1.06
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8	1.06
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8	1.06
06192	1,2,3-Trichloropropane	96-18-4	0.40	U	0.40	4.8	1.06
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8	1.06
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8	1.06
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8	1.06
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.8	1.06
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8	1.06
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	21.7
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

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

Sample Description: **SL-130-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132127
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-4 SDG#: DE008-07

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	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
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
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-130-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132127
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-4 SDG#: DE008-07

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	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 LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. 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	40,200		5.56	22.1	1
07914	Boron	7440-42-8	4.92	U	4.92	27.6	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,580		6.78	22.1	1
01654	Iron	7439-89-6	32,600		26.0	111	5
01656	Lithium	7439-93-2	29.2		0.24	2.2	1
01657	Magnesium	7439-95-4	5,240		2.81	11.1	1
06958	Manganese	7439-96-5	314		0.0862	0.553	1
10145	Phosphorus	7723-14-0	166		0.619	11.1	1
01662	Potassium	7440-09-7	2,700		19.9	55.3	1
01667	Sodium	7440-23-5	246		41.2	111	1
07968	Strontium	7440-24-6	36.4		0.0685	0.553	1
06969	Tin	7440-31-5	2.59	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,200		2.10	5.53	5
10146	Zirconium	7440-67-7	6.32		0.928	5.53	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.278		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.						

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

Sample Description: **SL-130-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132127
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-4 SDG#: DE008-07

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**	
06125	Arsenic	7440-38-2	9.24	0.0670	0.446	2
06126	Barium	7440-39-3	182	0.301	1.12	5
06127	Beryllium	7440-41-7	1.09	0.0179	0.112	2
06128	Cadmium	7440-43-9	0.230	0.0402	0.112	2
06131	Chromium	7440-47-3	44.4	0.134	0.446	2
06132	Cobalt	7440-48-4	10.2	0.0223	0.112	2
06133	Copper	7440-50-8	14.5	0.0737	0.446	2
06135	Lead	7439-92-1	11.9	0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.553	0.0558	0.112	2
06139	Nickel	7440-02-0	25.2	0.112	0.446	2
06141	Selenium	7782-49-2	0.135 J	0.0446	0.446	2
06142	Silver	7440-22-4	0.0941 J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.422	0.0335	0.112	2
06148	Vanadium	7440-62-2	79.6	0.0246	0.112	2
06149	Zinc	7440-66-6	68.5	0.625	3.35	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0039 J	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	4.5	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	526	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.	6.76	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.3	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.					

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

Sample Description: **SL-130-SA5C-SB-4.0-5.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132127
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-4 SDG#: DE008-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-130-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	B103091AA	11/05/2010 18:21	Chelsea B Eastep	1.06
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 16:45	Jason M Long	21.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030822839	11/04/2010 23:20	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030822839	11/04/2010 23:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030822839	11/04/2010 23:25	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030822839	11/04/2010 23:17	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 15:26	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLC026	11/22/2010 19:57	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLC026	11/08/2010 16:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 07:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 13:35	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:29	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:35	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 23:11	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:35	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:35	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:35	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/14/2010 23:59	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:35	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 23:21	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:35	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:35	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:29	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:35	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/15/2010 06:47	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 22:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-130-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132127
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-4 SDG#: DE008-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201A	11/20/2010 02:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10322322201B	11/20/2010 01:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10319243201A	11/16/2010 12:59	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201A	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10322322201B	11/18/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101B	11/05/2010 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039401A	11/05/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1

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

Sample Description: **SL-130-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-9.0-10.0

LLI Sample # SW 6132128
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-9 SDG#: DE008-08

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	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-130-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-9.0-10.0

LLI Sample # SW 6132128
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-9 SDG#: DE008-08

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
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
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 LCS recovery for PCB-1016 is outside the QC limits. Results from the reextraction are within the QC limits/method requirements. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

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

Sample Description: **SL-130-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-9.0-10.0

LLI Sample # SW 6132128
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-9 SDG#: DE008-08

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	26,600		5.57	22.1	1
07914	Boron	7440-42-8	4.93	U	4.93	27.7	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	15,500		6.79	22.1	1
01654	Iron	7439-89-6	22,800		5.22	22.1	1
01656	Lithium	7439-93-2	23.7		0.24	2.2	1
01657	Magnesium	7439-95-4	4,560		2.81	11.1	1
06958	Manganese	7439-96-5	218		0.0864	0.554	1
10145	Phosphorus	7723-14-0	166		0.620	11.1	1
01662	Potassium	7440-09-7	2,600		19.9	55.4	1
01667	Sodium	7440-23-5	638		41.3	111	1
07968	Strontium	7440-24-6	37.3		0.0687	0.554	1
06969	Tin	7440-31-5	2.46	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,340		2.10	5.54	5
10146	Zirconium	7440-67-7	5.00	J	0.930	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.234		0.0658	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	4.94		0.0658	0.439	2
06126	Barium	7440-39-3	117		0.118	0.439	2
06127	Beryllium	7440-41-7	0.701		0.0175	0.110	2
06128	Cadmium	7440-43-9	0.233		0.0395	0.110	2
06131	Chromium	7440-47-3	33.1		0.132	0.439	2
06132	Cobalt	7440-48-4	5.13		0.0219	0.110	2
06133	Copper	7440-50-8	12.5		0.0724	0.439	2
06135	Lead	7439-92-1	7.22		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.266		0.0548	0.110	2
06139	Nickel	7440-02-0	16.2		0.110	0.439	2
06141	Selenium	7782-49-2	0.0439	U	0.0439	0.439	2
06142	Silver	7440-22-4	0.0718	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.328		0.0329	0.110	2
06148	Vanadium	7440-62-2	49.0		0.0241	0.110	2
06149	Zinc	7440-66-6	54.7		0.614	3.29	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	11a Anions by 300.0 - Fluoride	16984-48-8	15.3		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	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: **SL-130-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-9.0-10.0

LLI Sample # SW 6132128
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-9 SDG#: DE008-08

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.	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	22a pH by 9045C	n.a.	8.50	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	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	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 15:51	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLC026	11/22/2010 20:28	Timothy J Trees	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10312SLC026	11/08/2010 16:15	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10312SLG026	11/09/2010 00:00	Patricia L Foreman	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 07:20	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 13:39	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:33	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:39	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 23:24	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:39	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:39	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:39	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/15/2010 00:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:39	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 23:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:39	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:39	Damary Valentin	1

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

Sample Description: **SL-130-SA5C-SB-9.0-10.0 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-9.0-10.0

LLI Sample # SW 6132128
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:55 by RW

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130-9 SDG#: DE008-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:33	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:39	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 23:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201A	11/20/2010 02:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10323323201A	11/21/2010 10:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10319243201A	11/16/2010 13:13	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201A	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10323323201A	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182101B	11/05/2010 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039401A	11/05/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: TB-110310 Water
SSFL Area IV Collocated Soil Sampling
TB-110310

LLI Sample # WW 6132129
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 16:30

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130TB SDG#: DE008-09TB*

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	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

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: TB-110310 Water
SSFL Area IV Collocated Soil Sampling
TB-110310

LLI Sample # WW 6132129
LLI Group # 1219732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 16:30

Submitted: 11/04/2010 08:45
Reported: 01/20/2011 12:19

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

130TB SDG#: DE008-09TB*

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	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103121AA	11/08/2010 23:49	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103091AA	11/05/2010 10:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103091AA	11/05/2010 10:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103121AA	11/08/2010 23:49	Frank A Valla, Jr	1

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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

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: B103091AA	Sample number(s): 6132121,6132123,6132125,6132127									
Acetone	6.7	U	6.7	8.0	ug/kg	139		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	91		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	91		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	94		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	110		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	94		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	98		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	97		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103		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	108		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	81		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	97		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	108		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	97		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	72	68	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	100		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	93		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	94		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	103		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	114		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	94		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	109		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	89		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	94		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	84		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	82		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	114	113	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	90		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	89		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100		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. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	107		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	101		61-134		
Methylene Chloride	0.54	J	0.24	4.0	ug/kg	106		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	96		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	97		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	88		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	103		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	101		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	92		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	93		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	110		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	101		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	92		80-120		
Batch number: E103091AA	Sample number(s): 6132129									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101		60-132		
Batch number: E103111AA	Sample number(s): 6132121,6132123,6132125,6132127									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	104	70-130	4	30
Batch number: Y103121AA	Sample number(s): 6132129									
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

*- 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. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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: 10312SLC026 Sample number(s): 6132121-6132128

Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	91		55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	87		58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	87		63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	94		44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	82		66-137
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	107		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	98		62-142
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	100		70-130
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	92		78-120
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	96		62-141

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	114		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	101		56-121		
Batch number: 10312SLG026	Sample number(s): 6132121-6132128									
Aniline	170 U		170.	500	ug/kg	65		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
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		
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		
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		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
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		
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		
Isophorone	17	U	17.	170	ug/kg	87		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	97		66-117		
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		170.	500	ug/kg	88		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	84		35-106		
Phenol	17	U	17.	170	ug/kg	91		58-112		
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: 103140018A	Sample number(s): 6132121,6132126									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	95		85-115		
Batch number: 103130019A	Sample number(s): 6132121-6132128									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	67*	61*	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	68*		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	84		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: 103121026001A	Sample number(s): 6132121-6132128									
Antimony	0.0600	U	0.0600	0.200	mg/kg	100		11-208		
Arsenic	0.0937	J	0.0600	0.400	mg/kg	100		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	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	111		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	110		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	105		78-122		
Batch number: 103121026001B	Sample number(s): 6132121-6132128									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		79-122		
Batch number: 103121026001C	Sample number(s): 6132121-6132128									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	113		78-122		
Batch number: 103121026001D	Sample number(s): 6132121-6132128									
Barium	0.108	U	0.108	0.400	mg/kg	107		79-121		
Batch number: 103125708004	Sample number(s): 6132121-6132128									
Aluminum	5.03	U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	90		78-110		
Calcium	8.56	J	6.13	20.0	mg/kg	99		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	94		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.52	J	0.560	10.0	mg/kg	109		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3	U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.12	J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	85		85-115		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 103125711002	Sample number(s): 6132121-6132128									
Mercury	0.0027	U	0.0027	0.0957	mg/kg	103		88-123		
Batch number: 10319243201A	Sample number(s): 6132121-6132128									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10319319201A	Sample number(s): 6132121-6132128									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
Batch number: 10322322201B	Sample number(s): 6132121-6132127									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 10323323201A	Sample number(s): 6132128									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 10309039401A	Sample number(s): 6132121-6132128									
22a pH by 9045C						99		95-105		
Batch number: 10309182101B	Sample number(s): 6132121-6132128									
Oxidation Reduction Potential						98		98-102		
Batch number: 10309162402A	Sample number(s): 6132121-6132128									
28a Moisture Content by 160.3						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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103091AA	Sample number(s): 6132121,6132123,6132125,6132127 UNSPK: P130715								
Acetone	211*	233*	15-210	20	30				
Benzene	95	91	55-143	6	30				
Bromobenzene	99	89	43-139	0	30				
Bromochloromethane	108	97	60-137	1	30				
Bromodichloromethane	98	95	53-136	6	30				
Bromoform	99	92	38-124	2	30				
Bromomethane	127	112	42-168	3	30				
2-Butanone	110	118	37-163	17	30				
n-Butylbenzene	96	83	30-146	4	30				
sec-Butylbenzene	98	87	33-157	2	30				
tert-Butylbenzene	98	88	41-152	1	30				
Carbon Tetrachloride	104	99	45-153	4	30				
Chlorobenzene	99	91	49-135	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chloroethane	116	107	39-152	1	30				
2-Chloroethyl Vinyl Ether	86	81	32-139	4	30				
Chloroform	102	97	61-142	5	30				
Chloromethane	120	110	51-163	1	30				
2-Chlorotoluene	97	86	42-146	2	30				
4-Chlorotoluene	99	88	39-145	2	30				
1,2-Dibromo-3-chloropropane	95	83	30-139	5	30				
Dibromochloromethane	104	95	51-128	0	30				
1,2-Dibromoethane	101	92	54-129	1	30				
Dibromomethane	102	98	57-130	6	30				
1,2-Dichlorobenzene	98	86	36-133	3	30				
1,3-Dichlorobenzene	96	84	34-134	3	30				
1,4-Dichlorobenzene	96	85	35-136	4	30				
Dichlorodifluoromethane	101	87	26-151	6	30				
1,1-Dichloroethane	94	91	63-142	6	30				
1,2-Dichloroethane	106	102	68-131	6	30				
1,1-Dichloroethene	112	108	61-149	5	30				
cis-1,2-Dichloroethene	97	94	60-136	7	30				
trans-1,2-Dichloroethene	112	109	59-142	6	30				
1,2-Dichloropropane	94	92	62-135	7	30				
1,3-Dichloropropane	97	91	58-129	3	30				
2,2-Dichloropropane	103	100	53-147	7	30				
1,1-Dichloropropene	96	93	54-145	6	30				
cis-1,3-Dichloropropene	88	87	51-131	8	30				
trans-1,3-Dichloropropene	90	85	49-129	4	30				
Ethylbenzene	98	91	44-141	2	30				
Freon 113	118	112	56-156	4	30				
Hexachlorobutadiene	93	79	10-155	8	30				
2-Hexanone	104	109	32-160	15	30				
Isopropylbenzene	97	90	38-144	2	30				
p-Isopropyltoluene	99	88	29-152	2	30				
Methyl Tertiary Butyl Ether	115	111	55-129	6	30				
4-Methyl-2-pentanone	108	98	46-139	1	30				
Methylene Chloride	128	108	61-141	6	30				
n-Propylbenzene	98	90	39-157	2	30				
Styrene	101	92	35-134	0	30				
1,1,1,2-Tetrachloroethane	103	94	52-130	1	30				
1,1,2,2-Tetrachloroethane	97	87	40-152	1	30				
Tetrachloroethene	104	95	42-149	1	30				
Toluene	95	88	50-146	2	30				
1,2,3-Trichlorobenzene	82	73	10-140	3	30				
1,2,4-Trichlorobenzene	78	71	10-136	1	30				
1,1,1-Trichloroethane	103	99	64-142	6	30				
1,1,2-Trichloroethane	101	93	54-139	1	30				
Trichloroethene	98	93	53-144	4	30				
Trichlorofluoromethane	139	120	47-163	5	30				
1,2,3-Trichloropropane	105	93	45-154	3	30				
1,2,4-Trimethylbenzene	100	89	37-149	2	30				
1,3,5-Trimethylbenzene	98	88	38-150	1	30				
Vinyl Chloride	118	105	50-154	2	30				
m+p-Xylene	106	95	44-137	1	30				
o-Xylene	95	88	42-137	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E103091AA	Sample number(s): 6132129 UNSPK: P130634								
1,4-Dioxane	103	103	50-150	0	30				
Batch number: E103111AA	Sample number(s): 6132121,6132123,6132125,6132127 UNSPK: P130715								
1,4-Dioxane	99	96	70-130	3	30				
Batch number: 10312SLC026	Sample number(s): 6132121-6132128 UNSPK: 6132121								
Acenaphthene	86	89	63-105	4	30				
Acenaphthylene	80	85	55-126	6	30				
Anthracene	87	87	46-136	0	30				
Benzo(a)anthracene	90	92	39-144	1	30				
Benzo(a)pyrene	84	85	34-156	2	30				
Benzo(b)fluoranthene	80	82	43-155	4	30				
Benzo(g,h,i)perylene	92	91	33-141	1	30				
Benzo(k)fluoranthene	76	82	42-144	8	30				
Butylbenzylphthalate	111	109	73-140	2	30				
Di-n-butylphthalate	100	101	78-160	1	30				
Chrysene	93	92	29-156	1	30				
Dibenz(a,h)anthracene	94	92	41-130	2	30				
Diethylphthalate	91	90	87-131	0	30				
Dimethylphthalate	95	97	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	117	113	39-167	3	30				
Fluoranthene	78	83	26-166	6	30				
Fluorene	92	93	45-121	1	30				
Indeno(1,2,3-cd)pyrene	93	91	21-143	2	30				
1-Methylnaphthalene	84	89	72-123	6	30				
2-Methylnaphthalene	74	80	28-121	8	30				
Naphthalene	80	86	61-102	7	30				
N-Nitrosodimethylamine	86	95	48-113	10	30				
Di-n-octylphthalate	116	100	40-192	14	30				
Phenanthrene	92	93	12-165	1	30				
Pyrene	101	101	15-153	0	30				
Batch number: 10312SLG026	Sample number(s): 6132121-6132128 UNSPK: P133892								
Aniline	56	64	14-114	13	30				
Benzidine	27*	40	35-141	38*	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				
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				
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				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dichlorophenol	92	93	78-117	2	30				
2,4-Dimethylphenol	88	92	56-130	4	30				
3,5-Dimethylphenol	93	94	70-130	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				
Hexachlorobenzene	94	97	61-111	2	30				
Hexachlorobutadiene	88	90	62-120	3	30				
Hexachlorocyclopentadiene	48	51	10-153	6	30				
Hexachloroethane	78	82	57-109	4	30				
Isophorone	83	84	51-118	2	30				
2-Methylphenol	89	92	47-142	3	30				
4-Methylphenol	91	97	55-126	6	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-Nitrosodiphenylamine	95	98	86-145	3	30				
Pentachlorophenol	67	74	17-149	11	30				
Phenol	90	91	58-126	1	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: 103140018A	Sample number(s): 6132121,6132126 UNSPK: 6132121								
6a Perchlorate EPA 6850	96	98	80-120	2	20				
Batch number: 103130019A	Sample number(s): 6132121-6132128 UNSPK: 6132122								
PCB-1016	87	84	29-146	3	50				
PCB-1260	112	110	39-149	2	50				
Batch number: 103121026001A	Sample number(s): 6132121-6132128 UNSPK: P130715 BKG: P130715								
Antimony	61*	54*	75-125	8	20	0.316	0.275	14 (1)	20
Arsenic	104	122	75-125	4	20	7.49	6.96	7	20
Beryllium	92	103	75-125	5	20	0.876	0.908	4	20
Cadmium	140*	127*	75-125	9	20	0.164	0.123	29* (1)	20
Chromium	151*	116	75-125	8	20	32.2	31.7	2	20
Cobalt	108	101	75-125	6	20	7.77	6.50	18	20
Copper	118	103	75-125	7	20	10.1	10.3	2	20
Lead	132*	131*	75-125	0	20	9.73	8.87	9	20
Nickel	123	103	75-125	7	20	18.3	17.6	4	20
Silver	126*	126*	75-125	1	20	0.0816 J	0.0626 J	26* (1)	20
Thallium	143*	118	75-125	12	20	0.342	0.330	4 (1)	20
Vanadium	188 (2)	160 (2)	75-125	4	20	57.3	57.1	0	20
Zinc	129 (2)	82 (2)	75-125	8	20	48.6	48.8	0	20
Batch number: 103121026001B	Sample number(s): 6132121-6132128 UNSPK: P130715 BKG: P130715								

*- 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. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Selenium	101	102	75-125	1	20	0.197 J	0.142 J	32* (1)	20
Batch number: 103121026001C	Sample number(s): 6132121-6132128 UNSPK: P130715 BKG: P130715								
Molybdenum	118	114	75-125	3	20	0.428	0.376	13 (1)	20
Batch number: 103121026001D	Sample number(s): 6132121-6132128 UNSPK: P130715 BKG: P130715								
Barium	206 (2)	164 (2)	75-125	2	20	150	137	9	20
Batch number: 103125708004	Sample number(s): 6132121-6132128 UNSPK: P130715 BKG: P130715								
Aluminum	3713 (2)	2639 (2)	75-125	6	20	29,800	29,000	3	20
Boron	95	94	84-115	0	20	4.36 U	4.36 U	0 (1)	20
Calcium	163 (2)	127 (2)	75-125	3	20	3,620	3,700	2	20
Iron	878 (2)	373 (2)	75-125	2	20	27,500	28,100	2	20
Lithium	101	99	82-114	1	20	27.3	25.0	9	20
Magnesium	228 (2)	109 (2)	75-125	4	20	4,920	4,750	3	20
Manganese	70 (2)	63 (2)	75-125	1	20	224	213	5	20
Phosphorus	101	108	75-125	3	20	134	134	0	20
Potassium	137*	138*	75-125	1	20	2,230	2,230	0	20
Sodium	104	101	75-125	2	20	204	173	16 (1)	20
Strontium	100	99	75-115	0	20	29.0	29.1	0	20
Tin	93	94	80-110	2	20	2.28 J	2.25 J	1 (1)	20
Titanium	196 (2)	61 (2)	75-125	11	20	1,070	773	33*	20
Zirconium	97	97	75-125	1	20	5.56	5.27	5 (1)	20
Batch number: 103125711002	Sample number(s): 6132121-6132128 UNSPK: P130715 BKG: P130715								
Mercury	98	98	80-120	5	20	0.0069 J	0.0027 U	200* (1)	20
Batch number: 10319243201A	Sample number(s): 6132121-6132128 UNSPK: 6132122 BKG: 6132122								
3a Cr VI by EPA 7199	87		75-125			0.20 U	1.2	200* (1)	20
Batch number: 10319319201A	Sample number(s): 6132121-6132128 UNSPK: 6132121 BKG: 6132121								
11a Anions by 300.0 - Fluoride	92		80-120			12.4	18.7	41*	20
Batch number: 10322322201B	Sample number(s): 6132121-6132127 UNSPK: P130715 BKG: P130715								
7a Perchlorate EPA 314.0	114		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10323323201A	Sample number(s): 6132128 UNSPK: 6132128 BKG: 6132128								
7a Perchlorate EPA 314.0	116		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10309039401A	Sample number(s): 6132121-6132128 BKG: 6132121								
22a pH by 9045C						8.19	8.18	0	1
Batch number: 10309182101B	Sample number(s): 6132121-6132128 BKG: P131504								
Oxidation Reduction Potential						436	426	2	6
Batch number: 10309162402A	Sample number(s): 6132121-6132128 BKG: P130713								
28a Moisture Content by 160.3						11.2	10.7	5	20

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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. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

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: 1a Volatile Organics EPA 8260B
Batch number: B103091AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6132121	113	107	94	82
6132123	115	114	92	83
6132125	113	106	97	77
6132127	116	111	93	81
Blank	114	106	93	84
LCS	108	107	96	96
MS	106	100	102	98
MSD	107	107	99	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103091AA

	Toluene-d8
6132129	102
Blank	100
LCS	100
MS	101
MSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103111AA

	Toluene-d8
6132121	98
6132123	98
6132125	98
6132127	98
Blank	99
LCS	100
LCSD	99
MS	97
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6132129	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

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

Surrogate Quality Control

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10312SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6132121	95	80	99
6132122	94	78	92
6132123	91	76	92
6132124	96	80	90
6132125	93	78	90
6132126	95	79	90
6132127	95	80	93
6132128	94	79	86
Blank	91	78	90
LCS	94	79	91
MS	94	78	90
MSD	96	80	90
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10312SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6132121	76	79	74	71	77	86
6132122	85	87	78	79	85	93
6132123	85	87	77	80	85	92
6132124	87	89	81	82	85	97
6132125	82	86	81	80	85	98
6132126	84	86	78	78	82	87
6132127	81	83	75	75	81	93
6132128	83	84	83	78	84	96
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

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103130019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6132121	85	75
6132122	86	86
6132123	87	90
6132124	85	97
6132125	86	96
6132126	83	94
6132127	86	90
6132128	83	92
Blank	78	86
LCS	83	86
LCSD	81	93
MS	87	84
MSD	86	89
Limits:	53-139	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.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219732
Reported: 01/20/11 at 12:19 PM

Surrogate Quality Control

*- 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 Cap#1219732 Sample#6132121-29

CHAIN OF CUSTODY RECORD

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

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	Other Instructions and Notes
SL-118-SA5C-SB-4.5	11.03.10	1145	soil	none	4 - Encore samplers	X	X																				
SL-118-SA5C-SB-4.0-5.0	11.03.10	1150	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X	X											
SL-118-SA5C-SB-9.0-10.0	11.03.10	1155	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
SL-119-SA5C-SB-4.5	11.03.10	0945	soil	none	4 - Encore samplers	X	X																				
SL-119-SA5C-SB-4.0-5.0	11.03.10	0950	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
SL-119-SA5C-SB-6.0-7.0	11.03.10	0955	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
SL-120-SA5C-SB-4.5	11.03.10	1405	soil	none	4 - Encore samplers	X	X																				
SL-120-SA5C-SB-4.0-5.0	11.03.10	1410	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
SL-120-SA5C-SB-9.0-10.0	11.03.10	1415	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X	X											
SL-130-SA5C-SB-4.5	11.03.10	1550	soil	none	4 - Encore samplers	X	X																				
SL-130-SA5C-SB-4.0-5.0	11.03.10	1545	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
SL-130-SA5C-SB-9.0-10.0	11.03.10	1555	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
TB-110310	11.03.10	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:
	11.03.10 1630					11/4/10	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Received by: (Signature)**	**Date/Time**	**Airbill No.**	
Fed Ex						849 5	

January 28, 2011

Mr. Todd Burgesser
CDM Federal Services Program
555 17th Street Suite 1100
Denver, CO 80202

Dear Mr. Burgesser:

I am writing to inform you of revised analytical reports that are being issued for the SSFL Area IV Collocated Soil Sampling project.

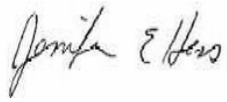
The correction to the data affects the Quality Control summary for the Perchlorate by LCMSMS analysis only.

During an additional review of this data, it was determined that the 70% to 130%% acceptance window reported for the perchlorate Laboratory Control Spike analysis was incorrect. The acceptance window has been corrected to the project specific window of 85% to 115%. This correction does not change any of the reported sample or quality control results. Additionally the matrix spike acceptance windows were updated to reflect the project windows of 80% to 120% recovery with a %RPD of 20%.

The revised analytical reports reflect these corrections and are attached.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1265. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,



Jenifer E. Hess
Manager
Environmental Sciences Division

JEH/mcs
Enclosures

cc: Nicole Maljovec

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SDG	Group #	Sample #	Sample Description	Collection Date
DE001	1217631	6119976	SL-100-SA5C-SS-0.0-0.5 Grab Soil	10/21/2010 08:35:00
DE001	1217631	6119967	SL-144-SA5C-SS-0.0-0.5 Grab Soil	10/20/2010 13:30:00
DE002	1217632	6119983	SL-079-SA5C-SS-0.0-0.5 Grab Soil	10/21/2010 11:15:00
DE003	1217761	6120956	SL-050-SA5C-SS-0.0-0.5 Soil	10/22/2010 09:10:00
DE003	1217761	6120965	SL-061-SA5C-SS-0.0-0.5 Soil	10/22/2010 10:40:00
DE004	1218260	6124085	SL-008-SA5C-SS-0.0-0.5 Grab Soil	10/26/2010 10:10:00
DE008	1219732	6132121	SL-118-SA5C-SB-4.0-5.0 Grab Soil	11/03/2010 11:50:00
DE008	1219732	6132126	SL-120-SA5C-SB-9.0-10.0 Grab Soil	11/03/2010 14:15:00
DE009	1219878	6132736	SL-134-SA5C-SB-4.0-5.0 Soil	11/04/2010 15:35:00
DE010	1220069	6133890	SL-129-SA5C-SB-4.0-5.0 Grab Soil	11/05/2010 10:50:00
DE012	1220507	6136196	SL-102-SA5C-SB-4.0-5.0 Soil	11/09/2010 10:55:00
DE013	1220753	6137485	SL-111-SA5C-SB-4.0-5.0 Soil	11/10/2010 14:45:00
DE015	1221175	6140325	SL-096-SA5C-SB-4.0-5.0 Soil	11/12/2010 10:50:00
DE017	1221705	6143354	SL-085-SA5C-SB-2.5-3.0 Soil	11/16/2010 15:03:00
DE018	1221905	6144595	SL-079-SA5C-SB-8.5-9.5 Soil	11/17/2010 12:10:00
DE020	1222291	6147113	SL-051-SA5C-SB-3.0-4.0 Soil	11/19/2010 11:45:00
DE021	1222508	6148501	SL-078-SA5C-SB-4.0-5.0 Soil	11/22/2010 15:14:00
DE022	1222698	6149365	SL-077-SA5C-SB-3.0-4.0 Soil	11/23/2010 11:30:00
DE024	1223083	6151502	SL-058-SA5C-SB-3.0-4.0 Soil	11/29/2010 09:45:00
DE027	1223723	6154847	SL-039-SA5C-SB-4.0-5.0 Soil	12/02/2010 14:49:00
DE027	1223723	6154852	SL-040-SA5C-SB-9.0-10.0 Soil	12/02/2010 12:26:00
DE028	1223933	6156144	SL-031-SA5C-SB-9.0-10.0 Soil	12/03/2010 12:44:00
DE029	1224161	6157201	SL-025-SA5C-SB-4.0-5.0 Soil	12/06/2010 15:13:00
DOE01	1217424	6118541	SL-129-SA5C-SS-0.0-0.5 Soil	10/18/2010 10:45:00

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ 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

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

Inorganic Qualifiers

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

REVISED

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 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/05/2010
Group Number: 1219878
SDG: DE009
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-131-SA5C-SB-4.0-5.0 Soil	6132731
SL-131-SA5C-SB-8.5-9.5 Soil	6132732
SL-132-SA5C-SB-4.0-5.0 Soil	6132733
SL-133-SA5C-SB-4.0-5.0 Soil	6132734
SL-133-SA5C-SB-8.0-9.0 Soil	6132735
SL-134-SA5C-SB-4.0-5.0 Soil	6132736
TB-110410 Water	6132737

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

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

Lancaster Laboratories

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Analysis Report

REVISED

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

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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

Analysis Report

REVISED

Sample Description: **SL-131-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-4.0-5.0

LLI Sample # SW 6132731
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13145 SDG#: DE009-01

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	6.5	U	6.5	7.7	0.92
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.92
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.92
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.92
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9	0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7	0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.92
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9	0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9	0.92
06192	Chloroform	67-66-3	0.15	J	0.12	3.9	0.92
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.92
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8	0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9	0.92
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9	0.92
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9	0.92
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9	0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.92
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9	0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.92
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.92
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9	0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.92
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9	0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.92
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9	0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9	0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9	0.92
06192	Ethylbenzene	100-41-4	0.07	J	0.06	3.9	0.92
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.92
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8	0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.92
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7	0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9	0.92
06192	4-Methyl-2-pentanone	108-10-1	0.81	J	0.38	7.7	0.92
06192	Methylene Chloride	75-09-2	4.0		0.23	3.9	0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.92

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

Sample Description: SL-131-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-4.0-5.0

LLI Sample # SW 6132731
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13145 SDG#: DE009-01

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	0.1	U	0.1	3.9	0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9	0.92
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9	0.92
06192	Toluene	108-88-3	0.12	J	0.08	3.9	0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9	0.92
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9	0.92
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9	0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.92
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9	0.92
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.92
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9	0.92
06192	m+p-Xylene	179601-23-1	0.19	J	0.16	3.9	0.92
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9	0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	23.06
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	70	U	70	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	700	U	700	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-131-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-4.0-5.0

LLI Sample # SW 6132731
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13145 SDG#: DE009-01

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	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	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	70	U	70	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	0.70	U	0.70	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	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.43	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1

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

Sample Description: SL-131-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-4.0-5.0

LLI Sample # SW 6132731
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:05

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Suite 210
Chantilly VA 20151

13145 SDG#: DE009-01

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	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	6.9	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	6.9	2
10225	Aroclor 5460	11126-42-4	5.5	J	2.1	6.9	2
10225	PCB-1016	12674-11-2	0.69	U	0.69	3.6	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6	2
10225	PCB-1248	12672-29-6	0.69	U	0.69	3.6	2
10225	PCB-1254	11097-69-1	49		0.69	3.6	2
10225	PCB-1260	11096-82-5	15		0.69	3.6	2
10225	PCB-1262	37324-23-5	0.69	U	0.69	3.6	2
10225	PCB-1268	11100-14-4	0.69	U	0.69	3.6	2

The LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. 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	18,500		5.19	20.6	1
07914	Boron	7440-42-8	0.918	U	0.918	5.16	1
01650	Calcium	7440-70-2	3,110		6.33	20.6	1
01654	Iron	7439-89-6	19,200		4.86	20.6	1
01656	Lithium	7439-93-2	15.5		0.23	2.1	1
01657	Magnesium	7439-95-4	3,480		2.62	10.3	1
06958	Manganese	7439-96-5	412		0.0805	0.516	1
10145	Phosphorus	7723-14-0	221		0.578	10.3	1
01662	Potassium	7440-09-7	3,310		18.6	51.6	1
01667	Sodium	7440-23-5	96.0	J	38.5	103	1
07968	Strontium	7440-24-6	25.3		0.0640	0.516	1
06969	Tin	7440-31-5	2.25	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,270		1.96	5.16	5
10146	Zirconium	7440-67-7	3.26	J	0.867	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0981	J	0.0625	0.208	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	6.27		0.0625	0.417	2

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13145 SDG#: DE009-01

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**	
06126	Barium	7440-39-3	116		0.113	0.417	2
06127	Beryllium	7440-41-7	0.581		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.324		0.0375	0.104	2
06131	Chromium	7440-47-3	28.5		0.125	0.417	2
06132	Cobalt	7440-48-4	9.64		0.0208	0.104	2
06133	Copper	7440-50-8	16.8		0.0688	0.417	2
06135	Lead	7439-92-1	9.91		0.0108	0.208	2
06138	Molybdenum	7439-98-7	0.911		0.0521	0.104	2
06139	Nickel	7440-02-0	16.4		0.104	0.417	2
06141	Selenium	7782-49-2	0.214	J	0.0417	0.417	2
06142	Silver	7440-22-4	0.298		0.0125	0.104	2
06145	Thallium	7440-28-0	0.354		0.0313	0.104	2
06148	Vanadium	7440-62-2	48.5		0.0229	0.104	2
06149	Zinc	7440-66-6	58.6		0.584	3.13	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	3.3		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.21	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	22a pH by 9045C	n.a.	6.73		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.0		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.						

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

Sample Description: **SL-131-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-4.0-5.0

LLI Sample # SW 6132731
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13145 SDG#: DE009-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-131-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	B103142AA	11/11/2010 05:16	Angela D Sneeringer	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 17:05	Jason M Long	23.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030922858	11/05/2010 17:45	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030922858	11/05/2010 18:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030922858	11/05/2010 18:07	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030922858	11/05/2010 18:02	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 16:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 11:10	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	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 07:39	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 13:43	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/15/2010 00:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:43	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 23:28	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:43	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:43	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:43	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/15/2010 00:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:43	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 23:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:43	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:43	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:36	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:43	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 23:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2

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

Sample Description: **SL-131-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-4.0-5.0

LLI Sample # SW 6132731
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13145 SDG#: DE009-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201A	11/20/2010 03:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10323323201A	11/21/2010 12:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10319243201A	11/16/2010 13:27	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201A	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10323323201A	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182102A	11/05/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039404A	11/05/2010 12:05	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-131-SA5C-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-8.5-9.5

LLI Sample # SW 6132732
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:10

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13185 SDG#: DE009-02

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	70	U	70	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	700	U	700	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	70	U	70	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	70	U	70	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-131-SA5C-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-8.5-9.5

LLI Sample # SW 6132732
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:10

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13185 SDG#: DE009-02

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	0.70	U	0.70	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	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.82	J	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.50	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.99	J	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	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	3.0		0.35	1.8	1
10225	PCB-1260	11096-82-5	0.84	J	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 LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. All results are reported from the original extract. Similar results were obtained in both extracts.

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

Sample Description: **SL-131-SA5C-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-8.5-9.5

LLI Sample # SW 6132732
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:10

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13185 SDG#: DE009-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	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	16,300		5.10	20.3	1
07914	Boron	7440-42-8	4.51	U	4.51	25.3	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	5,470		6.21	20.3	1
01654	Iron	7439-89-6	19,000		4.77	20.3	1
01656	Lithium	7439-93-2	25.9		0.22	2.0	1
01657	Magnesium	7439-95-4	4,000		2.57	10.1	1
06958	Manganese	7439-96-5	180		0.0790	0.507	1
10145	Phosphorus	7723-14-0	293		0.567	10.1	1
01662	Potassium	7440-09-7	2,450		18.2	50.7	1
01667	Sodium	7440-23-5	418		37.8	101	1
07968	Strontium	7440-24-6	19.7		0.0628	0.507	1
06969	Tin	7440-31-5	2.41	J	1.01	10.1	1
06970	Titanium	7440-32-6	1,260		1.93	5.07	5
10146	Zirconium	7440-67-7	2.88	J	0.851	5.07	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	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	6.84		0.0626	0.417	2
06126	Barium	7440-39-3	96.4		0.113	0.417	2
06127	Beryllium	7440-41-7	0.472		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.102	J	0.0376	0.104	2
06131	Chromium	7440-47-3	19.8		0.125	0.417	2
06132	Cobalt	7440-48-4	5.95		0.0209	0.104	2
06133	Copper	7440-50-8	10.7		0.0689	0.417	2
06135	Lead	7439-92-1	6.28		0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.907		0.0522	0.104	2
06139	Nickel	7440-02-0	11.8		0.104	0.417	2
06141	Selenium	7782-49-2	0.0417	U	0.0417	0.417	2
06142	Silver	7440-22-4	0.0663	J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.309		0.0313	0.104	2
06148	Vanadium	7440-62-2	37.0		0.0230	0.104	2
06149	Zinc	7440-66-6	62.2		0.584	3.13	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	6.2		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	31.3	J	9.5	31.6	1

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

Sample Description: **SL-131-SA5C-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-8.5-9.5

LLI Sample # SW 6132732
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:10

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13185 SDG#: DE009-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**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.	411		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.	8.80		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.1		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	10312SLG026	11/17/2010 16:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 11:41	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	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 07:57	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 13:47	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:46	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:47	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 23:32	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:47	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:47	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:47	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/15/2010 00:09	Tara L Snyder	1

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

Sample Description: **SL-131-SA5C-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-8.5-9.5

LLI Sample # SW 6132732
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:10

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13185 SDG#: DE009-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:47	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 23:32	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:47	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:47	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:46	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:47	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 23:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201A	11/20/2010 03:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10323323201A	11/21/2010 12:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10319243201A	11/16/2010 13:34	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201A	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10323323201A	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182102A	11/05/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039404A	11/05/2010 12:05	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-132-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132733
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13245 SDG#: DE009-03

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	7.3	U	7.3	8.7	0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.4	0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4	0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	0.97
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4	0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7	0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4	0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4	0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	0.97
06192	Chloroform	67-66-3	0.15	J	0.13	4.4	0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4	0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4	0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4	0.97
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.4	0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4	0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4	0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4	0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4	0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4	0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4	0.97
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.4	0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4	0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4	0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4	0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4	0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4	0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	0.97
06192	Freon 133a	75-88-7	0.55	U	0.55	5.4	0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4	0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7	0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	0.97
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7	0.97
06192	Methylene Chloride	75-09-2	0.52	J	0.26	4.4	0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	0.97

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

Sample Description: SL-132-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132733
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13245 SDG#: DE009-03

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	Styrene	100-42-5	0.11	U	0.11	4.4	0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4	0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	0.97
06192	Toluene	108-88-3	0.10	J	0.09	4.4	0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4	0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	0.97
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4	0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4	0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4	0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4	0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4	0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14	20.53
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

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

Sample Description: **SL-132-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132733
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13245 SDG#: DE009-03

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	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
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
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-132-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132733
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13245 SDG#: DE009-03

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	0.75	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 LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. 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	26,800		5.62	22.3	1
07914	Boron	7440-42-8	4.97	U	4.97	27.9	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	10,800		6.85	22.3	1
01654	Iron	7439-89-6	27,500		5.26	22.3	1
01656	Lithium	7439-93-2	27.5		0.25	2.2	1
01657	Magnesium	7439-95-4	5,720		2.84	11.2	1
06958	Manganese	7439-96-5	240		0.0872	0.559	1
10145	Phosphorus	7723-14-0	244		0.626	11.2	1
01662	Potassium	7440-09-7	2,500		20.1	55.9	1
01667	Sodium	7440-23-5	551		41.7	112	1
07968	Strontium	7440-24-6	46.4		0.0693	0.559	1
06969	Tin	7440-31-5	2.46	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,300		2.12	5.59	5
10146	Zirconium	7440-67-7	6.07		0.939	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.169	J	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.						

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

Sample Description: SL-132-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132733
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13245 SDG#: DE009-03

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**	
06125	Arsenic	7440-38-2	8.04	0.0670	0.447	2
06126	Barium	7440-39-3	161	0.121	0.447	2
06127	Beryllium	7440-41-7	0.725	0.0179	0.112	2
06128	Cadmium	7440-43-9	0.286	0.0402	0.112	2
06131	Chromium	7440-47-3	36.8	0.134	0.447	2
06132	Cobalt	7440-48-4	12.2	0.0223	0.112	2
06133	Copper	7440-50-8	15.4	0.0738	0.447	2
06135	Lead	7439-92-1	12.0	0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.375	0.0559	0.112	2
06139	Nickel	7440-02-0	23.3	0.112	0.447	2
06141	Selenium	7782-49-2	0.0447 U	0.0447	0.447	2
06142	Silver	7440-22-4	0.0473 J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.373	0.0335	0.112	2
06148	Vanadium	7440-62-2	73.4	0.0246	0.112	2
06149	Zinc	7440-66-6	67.4	0.626	3.35	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**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	33.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	441	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.	7.99	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	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.					

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

Sample Description: **SL-132-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132733
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

CDM Federal Programs Corp.
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Chantilly VA 20151

13245 SDG#: DE009-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-132-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	B103142AA	11/11/2010 05:39	Angela D Sneeringer	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 17:25	Jason M Long	20.53
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030922858	11/05/2010 17:49	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030922858	11/05/2010 18:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030922858	11/05/2010 18:08	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030922858	11/05/2010 17:47	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 17:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 12:54	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	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 08:16	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 13:51	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:49	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:51	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 23:35	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:51	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:51	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:51	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/15/2010 00:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:51	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 23:35	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:51	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:51	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:49	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:51	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 23:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2

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

Sample Description: **SL-132-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132733
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

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Reported: 01/20/2011 12:04

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

13245 SDG#: DE009-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201B	11/20/2010 04:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10323323201A	11/21/2010 13:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10319243201A	11/16/2010 13:48	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201B	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10323323201A	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182102A	11/05/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039404A	11/05/2010 12:05	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

Lancaster Laboratories

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

Analysis Report

REVISED

Sample Description: SL-133-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132734
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13345 SDG#: DE009-04

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	7.1	U	7.1	8.5	0.94
06192	Benzene	71-43-2	0.11	J	0.11	4.2	0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2	0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2	0.94
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2	0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5	0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2	0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2	0.94
06192	Chloroform	67-66-3	0.13	J	0.13	4.2	0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2	0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.94
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2	0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2	0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2	0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.94
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2	0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2	0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.2	0.94
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5	0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2	0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.94
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5	0.94
06192	Methylene Chloride	75-09-2	4.0	J	0.25	4.2	0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.94

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

Sample Description: SL-133-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132734
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13345 SDG#: DE009-04

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	Styrene	100-42-5	0.11	U	0.11	4.2	0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2	0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.94
06192	Toluene	108-88-3	1.2	J	0.08	4.2	0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2	0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2	0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2	0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2	0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2	0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.94
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	15	22.44
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

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

Sample Description: SL-133-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132734
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13345 SDG#: DE009-04

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	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
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	0.86	J	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	1.9	J	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	2.9		0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	8.9		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	13		0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	2.5		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	4.3		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.8	J	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	6.9	J	6.8	20	1
10138	Fluoranthene	206-44-0	2.7		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	13		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-133-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132734
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13345 SDG#: DE009-04

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	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	3.6		0.75	1.9	1
10138	Pyrene	129-00-0	3.1		0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.5	2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.5	2
10225	Aroclor 5460	11126-42-4	3.2	J	2.3	7.5	2
10225	PCB-1016	12674-11-2	0.75	U	0.75	3.8	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.8	2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.8	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.8	2
10225	PCB-1248	12672-29-6	0.75	U	0.75	3.8	2
10225	PCB-1254	11097-69-1	16		0.75	3.8	2
10225	PCB-1260	11096-82-5	7.3		0.75	3.8	2
10225	PCB-1262	37324-23-5	0.75	U	0.75	3.8	2
10225	PCB-1268	11100-14-4	0.75	U	0.75	3.8	2

The LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. 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	21,000		5.63	22.4	1
07914	Boron	7440-42-8	4.98	U	4.98	28.0	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	3,130		6.86	22.4	1
01654	Iron	7439-89-6	21,100		5.27	22.4	1
01656	Lithium	7439-93-2	14.3		0.25	2.2	1
01657	Magnesium	7439-95-4	3,760		2.84	11.2	1
06958	Manganese	7439-96-5	478		0.0873	0.559	1
10145	Phosphorus	7723-14-0	187		0.627	11.2	1
01662	Potassium	7440-09-7	3,740		20.1	55.9	1
01667	Sodium	7440-23-5	97.7	J	41.7	112	1
07968	Strontium	7440-24-6	27.3		0.0694	0.559	1
06969	Tin	7440-31-5	2.21	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,300		2.13	5.59	5
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	0.186	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.						

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

Sample Description: SL-133-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132734
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13345 SDG#: DE009-04

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**	
06125	Arsenic	7440-38-2	5.95		0.0665	0.443	2
06126	Barium	7440-39-3	137		0.120	0.443	2
06127	Beryllium	7440-41-7	0.726		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.346		0.0399	0.111	2
06131	Chromium	7440-47-3	28.1		0.133	0.443	2
06132	Cobalt	7440-48-4	12.0		0.0222	0.111	2
06133	Copper	7440-50-8	19.1		0.0731	0.443	2
06135	Lead	7439-92-1	10.8		0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.888		0.0554	0.111	2
06139	Nickel	7440-02-0	19.0		0.111	0.443	2
06141	Selenium	7782-49-2	0.246	J	0.0443	0.443	2
06142	Silver	7440-22-4	0.161		0.0133	0.111	2
06145	Thallium	7440-28-0	0.423		0.0332	0.111	2
06148	Vanadium	7440-62-2	56.4		0.0244	0.111	2
06149	Zinc	7440-66-6	61.1		0.620	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	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	3.5		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.23	1.1	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	22a pH by 9045C	n.a.	6.34		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.5		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.						

Sample Description: **SL-133-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132734
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13345 SDG#: DE009-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-133-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	B103142AA	11/11/2010 06:02	Angela D Sneeringer	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 17:45	Jason M Long	22.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030922858	11/05/2010 17:54	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030922858	11/05/2010 18:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030922858	11/05/2010 18:08	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030922858	11/05/2010 17:52	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/17/2010 17:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 13:26	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	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 08:35	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 13:55	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:52	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 13:55	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 23:42	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 13:55	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 13:55	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 13:55	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/15/2010 00:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 13:55	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 23:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 13:55	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 13:55	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:52	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 13:55	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 23:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-133-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132734
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13345 SDG#: DE009-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201B	11/20/2010 05:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10323323201A	11/21/2010 13:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10319243201A	11/16/2010 14:01	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201B	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10323323201A	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182102A	11/05/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039404A	11/05/2010 12:05	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

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

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-133-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-8.0-9.0

LLI Sample # SW 6132735
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:10

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13389 SDG#: DE009-05

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	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	70	U	70	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	700	U	700	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	70	U	70	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	70	U	70	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-133-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-8.0-9.0

LLI Sample # SW 6132735
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:10

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13389 SDG#: DE009-05

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	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	0.70	U	0.70	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	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	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 LCS recovery for aroclor 1016 is outside the QC limits. A reextraction was performed outside the sample hold time. Results from the reextraction are within the limits. Results are reported from the original extract. Similar results were obtained in both extracts.

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

Sample Description: **SL-133-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-8.0-9.0

LLI Sample # SW 6132735
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:10

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13389 SDG#: DE009-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	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	12,000		5.13	20.4	1
07914	Boron	7440-42-8	4.54	U	4.54	25.5	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	3,350		6.25	20.4	1
01654	Iron	7439-89-6	19,200		4.80	20.4	1
01656	Lithium	7439-93-2	29.7		0.22	2.0	1
01657	Magnesium	7439-95-4	4,780		2.59	10.2	1
06958	Manganese	7439-96-5	261		0.0795	0.510	1
10145	Phosphorus	7723-14-0	509		0.571	10.2	1
01662	Potassium	7440-09-7	2,160		18.4	51.0	1
01667	Sodium	7440-23-5	333		38.0	102	1
07968	Strontium	7440-24-6	19.9		0.0632	0.510	1
06969	Tin	7440-31-5	2.17	J	1.02	10.2	1
06970	Titanium	7440-32-6	1,300		1.94	5.10	5
10146	Zirconium	7440-67-7	3.04	J	0.857	5.10	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.233		0.0612	0.204	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		0.0612	0.408	2
06126	Barium	7440-39-3	76.1		0.110	0.408	2
06127	Beryllium	7440-41-7	0.304		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.127		0.0367	0.102	2
06131	Chromium	7440-47-3	28.8		0.122	0.408	2
06132	Cobalt	7440-48-4	8.00		0.0204	0.102	2
06133	Copper	7440-50-8	12.6		0.0673	0.408	2
06135	Lead	7439-92-1	5.58		0.0106	0.204	2
06138	Molybdenum	7439-98-7	0.611		0.0510	0.102	2
06139	Nickel	7440-02-0	24.3		0.102	0.408	2
06141	Selenium	7782-49-2	0.0512	J	0.0408	0.408	2
06142	Silver	7440-22-4	0.0123	J	0.0122	0.102	2
06145	Thallium	7440-28-0	0.289		0.0306	0.102	2
06148	Vanadium	7440-62-2	46.7		0.0224	0.102	2
06149	Zinc	7440-66-6	68.6		0.571	3.06	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	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5	1

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

Sample Description: **SL-133-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-8.0-9.0

LLI Sample # SW 6132735
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:10

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13389 SDG#: DE009-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**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.	451		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.	8.13		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.8		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	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/18/2010 01:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 13:57	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	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 08:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103125708004	11/13/2010 14:00	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:55	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 14:00	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 23:46	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 14:00	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 14:00	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 14:00	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/15/2010 00:19	Tara L Snyder	1

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

Sample Description: **SL-133-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-8.0-9.0

LLI Sample # SW 6132735
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:10

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13389 SDG#: DE009-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 14:00	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 23:46	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 14:00	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 14:00	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:55	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 14:00	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 13:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 23:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/12/2010 13:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 13:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 13:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201B	11/20/2010 05:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10323323201A	11/21/2010 14:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10319243201A	11/16/2010 14:22	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201B	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10323323201A	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182102A	11/05/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039404A	11/05/2010 12:05	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

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

Lancaster Laboratories

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

Analysis Report

REVISED

Sample Description: **SL-134-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

LLI Sample # SW 6132736
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 15:35

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13445 SDG#: DE009-06

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	6.1	U	6.1	7.3	0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.81
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7	0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.81
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3	0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.7	0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.81
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7	0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.81
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6	0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7	0.81
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7	0.81
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7	0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.81
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.81
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.81
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7	0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.81
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6	0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3	0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7	0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3	0.81
06192	Methylene Chloride	75-09-2	0.22	U	0.22	3.7	0.81
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7	0.81

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

Sample Description: SL-134-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

LLI Sample # SW 6132736
LLI Group # 1219878
Account # 13013

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14420 Albemarle Point Place
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13445 SDG#: DE009-06

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	Styrene	100-42-5	0.09	U	0.09	3.7	0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.81
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7	0.81
06192	Toluene	108-88-3	0.42	J	0.07	3.7	0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.81
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7	0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.81
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.81
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7	0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.81
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7	0.81
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7	0.81
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	21.7
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

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

Sample Description: SL-134-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

LLI Sample # SW 6132736
LLI Group # 1219878
Account # 13013

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14420 Albemarle Point Place
Suite 210
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13445 SDG#: DE009-06

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	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-134-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

LLI Sample # SW 6132736
LLI Group # 1219878
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13445 SDG#: DE009-06

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	0.75	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
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	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

The LCS recovery for aroclor 1016 is outside the QC limits. The blank surrogate recoveries associated with the reextraction are outside the QC limits, but the LCS results from the reextraction are within the limits. 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	30,700		5.49	21.8	1
07914	Boron	7440-42-8	4.85	U	4.85	27.3	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,820		6.69	21.8	1
01654	Iron	7439-89-6	28,700		5.14	21.8	1
01656	Lithium	7439-93-2	30.2		0.24	2.2	1
01657	Magnesium	7439-95-4	5,600		2.77	10.9	1
06958	Manganese	7439-96-5	274		0.0851	0.545	1
10145	Phosphorus	7723-14-0	153		0.611	10.9	1
01662	Potassium	7440-09-7	2,360		19.6	54.5	1
01667	Sodium	7440-23-5	711		40.7	109	1
07968	Strontium	7440-24-6	38.8		0.0676	0.545	1
06969	Tin	7440-31-5	2.59	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,210		2.07	5.45	5
10146	Zirconium	7440-67-7	5.98		0.916	5.45	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.247		0.0667	0.222	2

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

Lancaster Laboratories

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

Analysis Report

REVISED

Sample Description: SL-134-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

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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**	
	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	7.50	0.0667	0.445	2
06126	Barium	7440-39-3	135	0.120	0.445	2
06127	Beryllium	7440-41-7	0.827	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.178	0.0400	0.111	2
06131	Chromium	7440-47-3	37.5	0.133	0.445	2
06132	Cobalt	7440-48-4	9.17	0.0222	0.111	2
06133	Copper	7440-50-8	14.7	0.0734	0.445	2
06135	Lead	7439-92-1	10.5	0.0116	0.222	2
06138	Molybdenum	7439-98-7	0.198	0.0556	0.111	2
06139	Nickel	7440-02-0	21.4	0.111	0.445	2
06141	Selenium	7782-49-2	0.0445 U	0.0445	0.445	2
06142	Silver	7440-22-4	0.0876 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.358	0.0334	0.111	2
06148	Vanadium	7440-62-2	71.1	0.0245	0.111	2
06149	Zinc	7440-66-6	61.1	0.623	3.34	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	8.9	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7	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
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	451	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.	8.05	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.0	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.					

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

Sample Description: **SL-134-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

LLI Sample # SW 6132736
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 15:35

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13445 SDG#: DE009-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-134-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	B103142AA	11/11/2010 06:24	Angela D Sneeringer	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103111AA	11/07/2010 18:05	Jason M Long	21.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201030922858	11/05/2010 17:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201030922858	11/05/2010 18:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201030922858	11/05/2010 18:08	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201030922858	11/05/2010 17:55	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10312SLG026	11/18/2010 01:36	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10312SLH026	11/23/2010 14:29	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	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103140018A	11/11/2010 20:22	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103130019A	11/12/2010 09:11	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103130019A	11/10/2010 07:30	Joseph S Feister	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	103125708004	11/13/2010 14:03	Damary Valentin	1
07914	Boron	SW-846 6010B	1	103125708004	11/14/2010 13:58	Damary Valentin	5
01650	Calcium	SW-846 6010B	1	103125708004	11/13/2010 14:03	Damary Valentin	1
01654	Iron	SW-846 6010B	1	103125708004	11/15/2010 23:50	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103125708004	11/13/2010 14:03	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	103125708004	11/13/2010 14:03	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	103125708004	11/13/2010 14:03	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	103125708004	11/15/2010 00:22	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103125708004	11/13/2010 14:03	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	103125708004	11/15/2010 23:50	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103125708004	11/13/2010 14:03	Damary Valentin	1
06969	Tin	SW-846 6010B	1	103125708004	11/13/2010 14:03	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	103125708004	11/14/2010 13:58	Damary Valentin	5
10146	Zirconium	SW-846 6010B	1	103125708004	11/13/2010 14:03	Damary Valentin	1
06124	Antimony	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103121026001D	11/12/2010 14:01	Choon Y Tian	2

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

Sample Description: **SL-134-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

LLI Sample # SW 6132736
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 15:35

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

13445 SDG#: DE009-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103121026001A	11/13/2010 23:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103121026001C	11/13/2010 23:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103121026001B	11/12/2010 14:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103121026001A	11/12/2010 14:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103125711002	11/10/2010 09:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103125708004	11/08/2010 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103121026001	11/08/2010 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103125711002	11/08/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10319319201B	11/20/2010 05:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10323323201A	11/21/2010 14:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10319243201A	11/16/2010 14:50	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10319319201B	11/15/2010 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10323323201A	11/19/2010 13:30	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10309182102A	11/05/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10309039404A	11/05/2010 12:05	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10319243201A	11/15/2010 21:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

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Analysis Report

REVISED

Sample Description: TB-110410 Water
SSFL Area IV Collocated Soil Sampling
TB-110410

LLI Sample # WW 6132737
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 16:30

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

CTB04 SDG#: DE009-07TB*

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

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Analysis Report

REVISED

Sample Description: TB-110410 Water
SSFL Area IV Collocated Soil Sampling
TB-110410

LLI Sample # WW 6132737
LLI Group # 1219878
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 16:30

Submitted: 11/05/2010 09:00
Reported: 01/20/2011 12:04

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

CTB04 SDG#: DE009-07TB*

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	Y103121AA	11/08/2010 19:38	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103122AA	11/08/2010 18:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103122AA	11/08/2010 18:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103121AA	11/08/2010 19:38	Frank A Valla, Jr	1

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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

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: B103142AA	Sample number(s): 6132731,6132733-6132734,6132736									
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. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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: E103111AA	Sample number(s): 6132731,6132733-6132734,6132736									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	104	70-130	4	30
Batch number: E103122AA	Sample number(s): 6132737									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	95	103	60-132	8	30
Batch number: Y103121AA	Sample number(s): 6132737									
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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(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. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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): 6132731-6132736									
Aniline	170 U		170.	500	ug/kg	65		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
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		
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		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
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		
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		
Isophorone	17	U	17.	170	ug/kg	87		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	97		66-117		
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-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	84		35-106		
Phenol	17	U	17.	170	ug/kg	91		58-112		
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): 6132731-6132736									
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		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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: 103140018A	Sample number(s): 6132736									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	95		85-115		
Batch number: 103130019A	Sample number(s): 6132731-6132736									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	67*	61*	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	68*		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	84		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: 103121026001A	Sample number(s): 6132731-6132736									
Antimony	0.0600	U	0.0600	0.200	mg/kg	100		11-208		
Arsenic	0.0937	J	0.0600	0.400	mg/kg	100		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	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	111		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	110		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	105		78-122		
Batch number: 103121026001B	Sample number(s): 6132731-6132736									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		79-122		
Batch number: 103121026001C	Sample number(s): 6132731-6132736									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	113		78-122		
Batch number: 103121026001D	Sample number(s): 6132731-6132736									
Barium	0.108	U	0.108	0.400	mg/kg	107		79-121		
Batch number: 103125708004	Sample number(s): 6132731-6132736									
Aluminum	5.03	U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	90		78-110		
Calcium	8.56	J	6.13	20.0	mg/kg	99		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	94		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.52	J	0.560	10.0	mg/kg	109		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3	U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.12	J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	85		85-115		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 103125711002	Sample number(s): 6132731-6132736									
Mercury	0.0027	U	0.0027	0.0957	mg/kg	103		88-123		
Batch number: 10319243201A	Sample number(s): 6132731-6132736									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10319319201A	Sample number(s): 6132731-6132732									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
Batch number: 10319319201B	Sample number(s): 6132733-6132736									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
Batch number: 10323323201A	Sample number(s): 6132731-6132736									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 10309039404A	Sample number(s): 6132731-6132736									
22a pH by 9045C						101		95-105		
Batch number: 10309182102A	Sample number(s): 6132731-6132736									
Oxidation Reduction Potential						98		98-102		
Batch number: 10314162401A	Sample number(s): 6132731-6132736									
28a Moisture Content by 160.3						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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103142AA	Sample number(s): 6132731,6132733-6132734,6132736 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				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chloroethyl Vinyl Ether	102	102	32-139	4	30				
Chloroform	104	100	61-142	1	30				
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				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E103111AA	Sample number(s): 6132731,6132733-6132734,6132736 UNSPK: P130715								
1,4-Dioxane	99	96	70-130	3	30				
Batch number: E103122AA	Sample number(s): 6132737 UNSPK: P133134								
1,4-Dioxane	103		50-150						
Batch number: 10312SLG026	Sample number(s): 6132731-6132736 UNSPK: P133892								
Aniline	56	64	14-114	13	30				
Benzidine	27*	40	35-141	38*	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				
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				
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				
2,4-Dimethylphenol	88	92	56-130	4	30				
3,5-Dimethylphenol	93	94	70-130	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				
Hexachlorobenzene	94	97	61-111	2	30				
Hexachlorobutadiene	88	90	62-120	3	30				
Hexachlorocyclopentadiene	48	51	10-153	6	30				
Hexachloroethane	78	82	57-109	4	30				
Isophorone	83	84	51-118	2	30				
2-Methylphenol	89	92	47-142	3	30				
4-Methylphenol	91	97	55-126	6	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-Nitrosodiphenylamine	95	98	86-145	3	30				
Pentachlorophenol	67	74	17-149	11	30				
Phenol	90	91	58-126	1	30				
1,2,4-Trichlorobenzene	85	90	72-115	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
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): 6132731-6132736 UNSPK: P133892								
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				
Batch number: 103140018A	Sample number(s): 6132736 UNSPK: P132121								
6a Perchlorate EPA 6850	96	98	80-120	2	20				
Batch number: 103130019A	Sample number(s): 6132731-6132736 UNSPK: P132122								
PCB-1016	87	84	29-146	3	50				
PCB-1260	112	110	39-149	2	50				
Batch number: 103121026001A	Sample number(s): 6132731-6132736 UNSPK: P130715 BKG: P130715								
Antimony	61*	54*	75-125	8	20	0.316	0.275	14 (1)	20
Arsenic	104	122	75-125	4	20	7.49	6.96	7	20
Beryllium	92	103	75-125	5	20	0.876	0.908	4	20
Cadmium	140*	127*	75-125	9	20	0.164	0.123	29* (1)	20
Chromium	151*	116	75-125	8	20	32.2	31.7	2	20
Cobalt	108	101	75-125	6	20	7.77	6.50	18	20
Copper	118	103	75-125	7	20	10.1	10.3	2	20
Lead	132*	131*	75-125	0	20	9.73	8.87	9	20
Nickel	123	103	75-125	7	20	18.3	17.6	4	20
Silver	126*	126*	75-125	1	20	0.0816 J	0.0626 J	26* (1)	20
Thallium	143*	118	75-125	12	20	0.342	0.330	4 (1)	20
Vanadium	188 (2)	160 (2)	75-125	4	20	57.3	57.1	0	20
Zinc	129 (2)	82 (2)	75-125	8	20	48.6	48.8	0	20
Batch number: 103121026001B	Sample number(s): 6132731-6132736 UNSPK: P130715 BKG: P130715								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Selenium	101	102	75-125	1	20	0.197 J	0.142 J	32* (1)	20
Batch number: 103121026001C	Sample number(s): 6132731-6132736 UNSPK: P130715 BKG: P130715								
Molybdenum	118	114	75-125	3	20	0.428	0.376	13 (1)	20
Batch number: 103121026001D	Sample number(s): 6132731-6132736 UNSPK: P130715 BKG: P130715								
Barium	206 (2)	164 (2)	75-125	2	20	150	137	9	20
Batch number: 103125708004	Sample number(s): 6132731-6132736 UNSPK: P130715 BKG: P130715								
Aluminum	3713 (2)	2639 (2)	75-125	6	20	29,800	29,000	3	20
Boron	95	94	84-115	0	20	4.36 U	4.36 U	0 (1)	20
Calcium	163 (2)	127 (2)	75-125	3	20	3,620	3,700	2	20
Iron	878 (2)	373 (2)	75-125	2	20	27,500	28,100	2	20
Lithium	101	99	82-114	1	20	27.3	25.0	9	20
Magnesium	228 (2)	109 (2)	75-125	4	20	4,920	4,750	3	20
Manganese	70 (2)	63 (2)	75-125	1	20	224	213	5	20
Phosphorus	101	108	75-125	3	20	134	134	0	20
Potassium	137*	138*	75-125	1	20	2,230	2,230	0	20
Sodium	104	101	75-125	2	20	204	173	16 (1)	20
Strontium	100	99	75-115	0	20	29.0	29.1	0	20
Tin	93	94	80-110	2	20	2.28 J	2.25 J	1 (1)	20
Titanium	196 (2)	61 (2)	75-125	11	20	1,070	773	33*	20
Zirconium	97	97	75-125	1	20	5.56	5.27	5 (1)	20
Batch number: 103125711002	Sample number(s): 6132731-6132736 UNSPK: P130715 BKG: P130715								
Mercury	98	98	80-120	5	20	0.0069 J	0.0027 U	200* (1)	20
Batch number: 10319243201A	Sample number(s): 6132731-6132736 UNSPK: P132122 BKG: P132122								
3a Cr VI by EPA 7199	87		75-125			0.20 U	1.2	200* (1)	20
Batch number: 10319319201A	Sample number(s): 6132731-6132732 UNSPK: P132121 BKG: P132121								
11a Anions by 300.0 - Fluoride	92		80-120			12.4	18.7	41*	20
Batch number: 10319319201B	Sample number(s): 6132733-6132736 UNSPK: P133892 BKG: P133892								
11a Anions by 300.0 - Fluoride	83		80-120			1.8	1.6	16 (1)	20
Batch number: 10323323201A	Sample number(s): 6132731-6132736 UNSPK: P132128 BKG: P132128								
7a Perchlorate EPA 314.0	116		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10309039404A	Sample number(s): 6132731-6132736 BKG: 6132731								
22a pH by 9045C						6.73	6.72	0	1
Batch number: 10309182102A	Sample number(s): 6132731-6132736 BKG: 6132731								
Oxidation Reduction Potential						488	498	2	6
Batch number: 10314162401A	Sample number(s): 6132731-6132736 BKG: P133892								
28a Moisture Content by 160.3						8.9	9.4	6	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

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: 1a Volatile Organics EPA 8260B
Batch number: B103142AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6132731	100	99	101	95
6132733	102	106	98	97
6132734	103	107	98	98
6132736	103	108	99	98
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: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103111AA

	Toluene-d8
6132731	98
6132733	98
6132734	98
6132736	97
Blank	99
LCS	100
LCSD	99
MS	97
MSD	98
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103122AA

	Toluene-d8
6132737	100
Blank	99
LCS	100
LCSD	99
MS	100
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6132737	99	100	99	98
Blank	97	99	100	99
LCS	99	101	101	99
LCSD	98	100	101	100
Limits:	86-118	80-120	88-110	86-115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1219878
Reported: 01/20/11 at 12:04 PM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10312SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6132731	85	88	84	82	88	93
6132732	82	85	82	80	86	96
6132733	79	81	70	73	77	89
6132734	84	85	79	79	86	94
6132735	85	89	88	81	88	88
6132736	81	83	82	75	82	86
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

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10312SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6132731	89	78	92
6132732	99	82	97
6132733	94	77	92
6132734	99	83	96
6132735	99	82	98
6132736	94	77	89
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: 8a PCBs/PCTs by 8082
Batch number: 103130019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6132731	88	101
6132732	92	102
6132733	84	93
6132734	80	103
6132735	81	95
6132736	80	96
Blank	78	86
LCS	83	86
LCSD	81	93
MS	87	84
MSD	86	89
Limits:	53-139	45-120

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13013 1219878 6132731-37

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

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	Other Instructions and Notes
SL-131-SA5C-SB-4.5	11.04.10	1100	soil	none	4 - Encore samplers	X	X																				
SL-131-SA5C-SB-4.0-5.0	11.04.10	1105	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
SL-131-SA5C-SB-8.5-9.5	11.04.10	1110	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
SL-132-SA5C-SB-4.5	11.04.10	0920	soil	none	4 - Encore samplers	X	X																				
SL-132-SA5C-SB-4.0-5.0	11.04.10	0925	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
SL-133-SA5C-SB-4.5	11.04.10	1400	soil	none	4 - Encore samplers	X	X																				
SL-133-SA5C-SB-4.0-5.0	11.04.10	1405	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
SL-133-SA5C-SB-8.0-9.0	11.04.10	1410	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X												
SL-134-SA5C-SB-4.5	11.04.10	1530	soil	none	4 - Encore samplers	X	X																				
SL-134-SA5C-SB-4.0-5.0	11.04.10	1535	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X	X											
TB-110410	11.04.10	1630	water	HCl	3 - 40 ml VOA vials	X	X																				Trip blank

PB 11.04.10

Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Laboratory:
	11.04.10 1630						Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Received by: *(Signature)***	**Date/Time**	**Airbill No.**	
FedEx					4/5/10 900	NLM 11/9/10	

January 28, 2011

Mr. Todd Burgesser
CDM Federal Services Program
555 17th Street Suite 1100
Denver, CO 80202

Dear Mr. Burgesser:

I am writing to inform you of revised analytical reports that are being issued for the SSFL Area IV Collocated Soil Sampling project.

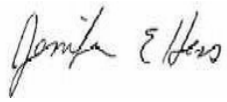
The correction to the data affects the Quality Control summary for the Perchlorate by LCMSMS analysis only.

During an additional review of this data, it was determined that the 70% to 130%% acceptance window reported for the perchlorate Laboratory Control Spike analysis was incorrect. The acceptance window has been corrected to the project specific window of 85% to 115%. This correction does not change any of the reported sample or quality control results. Additionally the matrix spike acceptance windows were updated to reflect the project windows of 80% to 120% recovery with a %RPD of 20%.

The revised analytical reports reflect these corrections and are attached.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1265. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,



Jenifer E. Hess
Manager
Environmental Sciences Division

JEH/mcs
Enclosures

cc: Nicole Maljovec

Lancaster Laboratories, Inc.
2425 New Holland Pike
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SDG	Group #	Sample #	Sample Description	Collection Date
DE001	1217631	6119976	SL-100-SA5C-SS-0.0-0.5 Grab Soil	10/21/2010 08:35:00
DE001	1217631	6119967	SL-144-SA5C-SS-0.0-0.5 Grab Soil	10/20/2010 13:30:00
DE002	1217632	6119983	SL-079-SA5C-SS-0.0-0.5 Grab Soil	10/21/2010 11:15:00
DE003	1217761	6120956	SL-050-SA5C-SS-0.0-0.5 Soil	10/22/2010 09:10:00
DE003	1217761	6120965	SL-061-SA5C-SS-0.0-0.5 Soil	10/22/2010 10:40:00
DE004	1218260	6124085	SL-008-SA5C-SS-0.0-0.5 Grab Soil	10/26/2010 10:10:00
DE008	1219732	6132121	SL-118-SA5C-SB-4.0-5.0 Grab Soil	11/03/2010 11:50:00
DE008	1219732	6132126	SL-120-SA5C-SB-9.0-10.0 Grab Soil	11/03/2010 14:15:00
DE009	1219878	6132736	SL-134-SA5C-SB-4.0-5.0 Soil	11/04/2010 15:35:00
DE010	1220069	6133890	SL-129-SA5C-SB-4.0-5.0 Grab Soil	11/05/2010 10:50:00
DE012	1220507	6136196	SL-102-SA5C-SB-4.0-5.0 Soil	11/09/2010 10:55:00
DE013	1220753	6137485	SL-111-SA5C-SB-4.0-5.0 Soil	11/10/2010 14:45:00
DE015	1221175	6140325	SL-096-SA5C-SB-4.0-5.0 Soil	11/12/2010 10:50:00
DE017	1221705	6143354	SL-085-SA5C-SB-2.5-3.0 Soil	11/16/2010 15:03:00
DE018	1221905	6144595	SL-079-SA5C-SB-8.5-9.5 Soil	11/17/2010 12:10:00
DE020	1222291	6147113	SL-051-SA5C-SB-3.0-4.0 Soil	11/19/2010 11:45:00
DE021	1222508	6148501	SL-078-SA5C-SB-4.0-5.0 Soil	11/22/2010 15:14:00
DE022	1222698	6149365	SL-077-SA5C-SB-3.0-4.0 Soil	11/23/2010 11:30:00
DE024	1223083	6151502	SL-058-SA5C-SB-3.0-4.0 Soil	11/29/2010 09:45:00
DE027	1223723	6154847	SL-039-SA5C-SB-4.0-5.0 Soil	12/02/2010 14:49:00
DE027	1223723	6154852	SL-040-SA5C-SB-9.0-10.0 Soil	12/02/2010 12:26:00
DE028	1223933	6156144	SL-031-SA5C-SB-9.0-10.0 Soil	12/03/2010 12:44:00
DE029	1224161	6157201	SL-025-SA5C-SB-4.0-5.0 Soil	12/06/2010 15:13:00
DOE01	1217424	6118541	SL-129-SA5C-SS-0.0-0.5 Soil	10/18/2010 10:45:00

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ 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

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

Inorganic Qualifiers

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

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

Analysis Report

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

November 29, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/06/2010
Group Number: 1220069
SDG: DE010
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-122-SA5C-SB-4.0-5.0 Grab Soil	6133888
SL-122-SA5C-SB-9.0-10.0 Grab Soil	6133889
SL-129-SA5C-SB-4.0-5.0 Grab Soil	6133890
SL-129-SA5C-SB-9.0-10.0 Grab Soil	6133891
SL-112-SA5C-SB-4.0-5.0 Grab Soil	6133892
SL-112-SA5C-SB-4.0-5.0MS Grab Soil	6133893
SL-112-SA5C-SB-4.0-5.0MSD Grab Soil	6133894
SL-112-SA5C-SB-4.0-5.0DUP Grab Soil	6133895
DUP06-SA5C-QC-110510 Grab Soil	6133896
TB-110510 Water	6133897
EB05-SA5C-110510 Grab Water	6133898

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

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

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Jenifer E. Hess
Manager

Lancaster Laboratories

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

Analysis Report

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

Submitted: 11/06/2010 10:20
Reported: 11/29/2010 17:35

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

122-4 SDG#: DE010-01

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	0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.83
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7	0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3	0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.7	0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.83
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7	0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.83
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6	0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7	0.83
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7	0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7	0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7	0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.83
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6	0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3	0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7	0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3	0.83
06192	Methylene Chloride	75-09-2	0.22	U	0.22	3.7	0.83
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7	0.83

*=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
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/05/2010 11:45

Submitted: 11/06/2010 10:20
Reported: 11/29/2010 17:35

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

122-4 SDG#: DE010-01

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	0.09	U	0.09	3.7	0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.83
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7	0.83
06192	Toluene	108-88-3	0.10	J	0.07	3.7	0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.7	0.83
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7	0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.83
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7	0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.83
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7	0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7	0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13	20.23
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	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-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

Submitted: 11/06/2010 10:20
Reported: 11/29/2010 17:35

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

122-4 SDG#: DE010-01

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	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	Bis(2-Ethylhexyl)phthalate	117-81-7	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-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

Submitted: 11/06/2010 10:20
Reported: 11/29/2010 17:35

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

122-4 SDG#: DE010-01

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	0.74	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**		**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	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	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	18,700		5.40	21.5	1
07914	Boron	7440-42-8	6.67		0.956	5.37	1
01650	Calcium	7440-70-2	89,700		32.9	107	5
01654	Iron	7439-89-6	18,700		5.06	21.5	1
01656	Lithium	7439-93-2	21.7		0.24	2.1	1
01657	Magnesium	7439-95-4	4,820		2.73	10.7	1
06958	Manganese	7439-96-5	260		0.0838	0.537	1
10145	Phosphorus	7723-14-0	82.2		0.601	10.7	1
01662	Potassium	7440-09-7	1,310		19.3	53.7	1
01667	Sodium	7440-23-5	652		40.1	107	1
07968	Strontium	7440-24-6	123		0.0666	0.537	1
06969	Tin	7440-31-5	2.15	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,120		2.04	5.37	5
10146	Zirconium	7440-67-7	3.85	J	0.902	5.37	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	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	5.37		0.0651	0.434	2
06126	Barium	7440-39-3	103		0.117	0.434	2
06127	Beryllium	7440-41-7	0.747		0.0174	0.108	2
06128	Cadmium	7440-43-9	0.197		0.0390	0.108	2
06131	Chromium	7440-47-3	25.3		0.130	0.434	2
06132	Cobalt	7440-48-4	5.07		0.0217	0.108	2
06133	Copper	7440-50-8	8.15		0.0716	0.434	2

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