

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/21/10 at 09:43 AM

Group Number: 1223249

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: 103351026003A	Sample number(s): 6152645-6152651 UNSPK: P151502 BKG: P151502								
Antimony	29*	39*	75-125	23*	20	0.0599 J	0.0649 J	8 (1)	20
Arsenic	155*	239*	75-125	17	20	5.47	5.39	1	20
Beryllium	109	143*	75-125	16	20	0.578	0.623	7	20
Cadmium	107	151*	75-125	30*	20	0.104	0.116	11 (1)	20
Chromium	115	155*	75-125	12	20	16.8	16.5	1	20
Cobalt	96	115	75-125	15	20	5.28	5.52	4	20
Copper	99	129*	75-125	16	20	5.98	6.59	10	20
Lead	84	143*	75-125	22*	20	4.15	4.33	4	20
Nickel	113	144*	75-125	13	20	9.08	9.74	7	20
Silver	122	145*	75-125	15	20	0.0266 J	0.0245 J	8 (1)	20
Thallium	110	126*	75-125	8	20	0.248	0.262	5 (1)	20
Vanadium	133*	254*	75-125	23*	20	30.5	32.8	7	20
Zinc	213 (2)	313 (2)	75-125	12	20	50.7	53.1	5	20
Batch number: 103351026003B	Sample number(s): 6152645-6152651 UNSPK: P151502 BKG: P151502								
Selenium	107	121	75-125	10	20	0.171 J	0.147 J	15 (1)	20
Batch number: 103351026003C	Sample number(s): 6152645-6152651 UNSPK: P151502 BKG: P151502								
Molybdenum	114	136*	75-125	15	20	0.419	0.389	7 (1)	20
Batch number: 103351026003D	Sample number(s): 6152645-6152651 UNSPK: P151502 BKG: P151502								
Barium	200 (2)	474 (2)	75-125	24*	20	74.6	79.8	7	20
Batch number: 103355708003	Sample number(s): 6152645-6152651 UNSPK: P151502 BKG: P151502								
Aluminum	823 (2)	844 (2)	75-125	0	20	15,800	16,000	2	20
Boron	98	97	84-115	2	20	6.98	6.96	0 (1)	20
Calcium	152 (2)	155 (2)	75-125	0	20	2,560	2,760	7	20
Iron	-1344 (2)	-1535 (2)	75-125	1	20	19,700	20,000	2	20
Lithium	100	101	82-114	0	20	19.8	20.0	1	20
Magnesium	-100 (2)	-54 (2)	75-125	2	20	5,090	5,050	1	20
Manganese	92 (2)	70 (2)	75-125	3	20	300	311	4	20
Phosphorus	88	98	75-125	2	20	278	306	9	20
Potassium	44*	50*	75-125	2	20	3,010	2,560	16	20
Sodium	98	99	75-125	0	20	117	124	5 (1)	20
Strontium	103	102	75-115	2	20	18.2	20.0	10	20
Tin	91	91	80-110	1	20	2.90 J	2.71 J	7 (1)	20
Titanium	16 (2)	8 (2)	75-125	1	20	1,280	1,070	18	20
Zirconium	103	104	75-125	0	20	3.01 J	3.84 J	24* (1)	20
Batch number: 103355711003	Sample number(s): 6152645-6152651 UNSPK: P151502 BKG: P151502								
Mercury	96	96	65-135	1	20	0.0027 U	0.0028 U	0 (1)	20
Batch number: 10335621301A	Sample number(s): 6152652 UNSPK: P152644 BKG: P152644								
Hexavalent Chromium (water)	99		59-135			5.0 U	5.0 U	0 (1)	20
Batch number: 10342342202A	Sample number(s): 6152645-6152651 UNSPK: P151507 BKG: P151507								
Fluoride by IC (solid)	42*		80-120			12.5	11.6	7	20
Batch number: 10343343201A	Sample number(s): 6152645-6152647 UNSPK: P151502 BKG: P151502								
Perchlorate in Soil	109		80-120			9.0 U	9.0 U	0 (1)	15

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/21/10 at 09:43 AM

Group Number: 1223249

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: 10343343201B Perchlorate in Soil	Sample number(s): 6152648-6152651 98		80-120	UNSPK: 6152648 9.0 U	BKG: 6152648 9.0 U	0 (1)	15		
Batch number: 10349243201A Hexavalent Chromium by IC	Sample number(s): 6152645-6152651 90		75-125	UNSPK: P154843 0.20 U	BKG: P154843 0.35 J	200* (1)	20		
Batch number: 10335039403A pH	Sample number(s): 6152645-6152651 7.38			BKG: 6152645 7.36		0	1		
Batch number: 10335182103A Oxidation Reduction Potential	Sample number(s): 6152645-6152651 499			BKG: 6152645 500		0	6		
Batch number: 10343162401A Moisture CDM	Sample number(s): 6152645-6152650 7.2			BKG: P148500 7.0		2	20		
Batch number: 10344162401A Moisture CDM	Sample number(s): 6152651 9.3			BKG: 6152651 8.5		9	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: B103361AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6152645	103	93	100	90
6152647	104	95	99	91
6152649	104	95	102	90
6152651	104	97	99	94
Blank	105	103	97	94
LCS	102	105	101	102
LCSD	102	104	101	99
MS	104	107	102	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1,4-Dioxane by Isotope Dil SIM

Batch number: E103351AA

	Toluene-d8
6152652	101
6152653	102
Blank	101
LCS	100
MS	102
MSD	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/21/10 at 09:43 AM

Group Number: 1223249

Surrogate Quality Control

Limits: 80-120

Analysis Name: 1,4-Dioxane by Isotope DL SIM
Batch number: E103361AA
Toluene-d8

6152645	99
6152647	98
6152649	98
6152651	98
Blank	99
LCS	99
LCSD	99

Limits: 70-130

Analysis Name: VOCs in Water 8260B
Batch number: Y103352AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6152652	100	99	104	99
6152653	100	98	104	101
Blank	101	98	104	101
LCS	102	101	106	104
LCSD	101	100	104	105

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

Analysis Name: Selected SVOAs in soil by SIM
Batch number: 10335SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6152645	77	82	80
6152646	77	80	80
6152647	79	83	81
6152648	76	79	75
6152649	81	86	81
6152650	83	88	79
6152651	77	81	76
Blank	82	89	87
LCS	80	84	80
MS	77	84	152*
MSD	75	80	157*

Limits: 40-130 45-130 45-135

Analysis Name: TCL SW846 Semivolatiles Soil
Batch number: 10335SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6152645	77	79	65	68	78	88
6152646	81	86	74	75	85	91
6152647	79	83	83	75	83	91
6152648	75	79	75	71	78	83
6152649	82	85	88	78	91	96
6152650	79	81	76	71	82	89
6152651	80	84	73	75	84	87

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Group Number: 1223249

Surrogate Quality Control

Blank	81	85	96	77	85	89
LCS	85	88	100	80	90	92
MS	84	87	98	80	90	94
MSD	85	87	99	79	90	93

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

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 10337WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6152652	65	45	91	88	93	89
Blank	58	39	88	84	88	88
LCS	64	45	90	89	93	94
LCSD	57	41	88	88	92	96

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

Analysis Name: Selected SVOAs in water by SIM

Batch number: 10337WAF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6152652	77	82	78
Blank	84	94	95
LCS	84	95	93
LCSD	79	91	88

Limits:	40-130	45-130	45-135

Analysis Name: PCBs & PCTs in Water

Batch number: 103400007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6152652	107	89
Blank	116	85
LCS	116	93
LCSD	111	86

Limits:	30-150	45-120

Analysis Name: PCBs & PCTs in Soil

Batch number: 103400026A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6152645	98	93
6152646	92	95
6152647	95	95
6152648	94	92
6152649	93	91
6152650	89	80
6152651	98	94
Blank	97	87
LCS	106	99
LCSD	87	89
MS	99	91
MSD	99	93

*- Outside of specification

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Client Name: CDM Federal Programs Corp.
Reported: 12/21/10 at 09:43 AM

Group Number: 1223249

Surrogate Quality Control

Limits: 53-139 45-120

*- Outside of specification

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

13013 | 223249 6152645 -53

CHAIN OF CUSTODY RECORD

[illegible]

6152645-53

[illegible]

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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 $\geq IDL$
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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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 29, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/02/2010
Group Number: 1223465
SDG: DE026
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-046-SA5C-SB-4.0-5.0 Soil	6153689
SL-046-SA5C-SB-9.0-10.0 Soil	6153690
SL-044-SA5C-SB-4.0-5.0 Soil	6153691
SL-044-SA5C-SB-9.0-10.0 Soil	6153692
TB-120110 Water	6153693
SL-045-SA5C-SB-4.0-5.0 Soil	6153694
SL-047-SA5C-SB-4.0-5.0 Soil	6153695
SL-045-SA5C-SB-8.0-9.0 Soil	6153696
EB12-SA5C-120110 Water	6153697

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

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

Attn: Todd Burgess

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

Respectfully Submitted,



Chad A. Moline
Group Leader

Sample Description: SL-046-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-4.0-5.0

LLI Sample # SW 6153689
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04645 SDG#: DE026-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11	6.8	8.1		0.94
06192	Benzene	71-43-2	0.10 U	0.10	4.0		0.94
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0		0.94
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0		0.94
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0		0.94
06192	Bromoform	75-25-2	0.40 U	0.40	4.0		0.94
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0		0.94
06192	2-Butanone	78-93-3	1.2 U	1.2	8.1		0.94
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0		0.94
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0		0.94
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0		0.94
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0		0.94
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0		0.94
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0		0.94
06192	Chloroform	67-66-3	0.12 U	0.12	4.0		0.94
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0		0.94
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0		0.94
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0		0.94
06192	Chlorotrifluoroethene	79-38-9	0.51 U	0.51	5.1		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71 U	0.71	4.0		0.94
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0		0.94
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0		0.94
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0		0.94
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0		0.94
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.0		0.94
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0		0.94
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0		0.94
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0		0.94
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0		0.94
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0		0.94
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0		0.94
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0		0.94
06192	Freon 113	76-13-1	0.11 U	0.11	4.0		0.94
06192	Freon 133a	75-88-7	0.51 U	0.51	5.1		0.94
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0		0.94
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.1		0.94
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0		0.94
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	8.1		0.94
06192	Methylene Chloride	75-09-2	0.92 J	0.24	4.0		0.94
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0		0.94

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

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

Sample Description: SL-046-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-4.0-5.0

LLI Sample # SW 6153689
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04645 SDG#: DE026-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.0		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0		0.94
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0		0.94
06192	Toluene	108-88-3	0.08 J	0.08	4.0		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0		0.94
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0		0.94
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.0		0.94
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0		0.94
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0		0.94
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0		0.94
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.6 U	5.6	17		25.88
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	289	18.0	35.9		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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Sample Description: SL-046-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-4.0-5.0

LLI Sample # SW 6153689
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04645 SDG#: DE026-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	72	U 72	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	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	0.79	J 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	0.50	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	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

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Sample Description: SL-046-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-4.0-5.0

LLI Sample # SW 6153689
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04645 SDG#: DE026-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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	13	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	19		1
10138	Phenanthrene	85-01-8	0.80 J	0.72	1.8		1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.1		25.67
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81	U 81	160	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54	U 54	160	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	320	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	320	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	54	U 54	160	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	54	U 54	160	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	54	U 54	160	1000000 0	1
10132	HMX	2691-41-0	130	U 130	400	1000000 0	1
10132	Nitrobenzene	98-95-3	54	U 54	160	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,200	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	160	1000000 0	1
10132	3-Nitrotoluene	99-08-1	130	U 130	160	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	160	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,200	1000000 0	1
10132	RDX	121-82-4	67	U 67	160	1000000 0	1
10132	Tetryl	479-45-8	82	U 82	160	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	54	U 54	160	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	54	U 54	160	1000000 0	1

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Sample Description: SL-046-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-4.0-5.0

LLI Sample # SW 6153689
LLI Group # 1223465
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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	650 U	650	1,600		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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	16	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	1.4 J	0.36	1.8		1
10225	PCB-1260	11096-82-5	3.5	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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	13	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	13	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	15	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43 U	0.43	1.3		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	110	540		1
10501	Isopropanol	67-63-0	110 U	110	540		1
10501	Methanol	67-56-1	110 U	110	540		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4 U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4 U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4 U	5.4	13		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6 U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6 U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6 U	1.6	3.8		1
Misc. Organics							
		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2 U	2.2	5.4		1
10346	Hydrazine	302-01-2	0.54 U	0.54	2.2		1
10346	Methylhydrazine	60-34-4	2.2 U	2.2	5.4		1

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Sample Description: SL-046-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-4.0-5.0

LLI Sample # SW 6153689
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04645 SDG#: DE026-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,900	5.31	21.1		1
07914	Boron	7440-42-8	12.7	0.940	5.28		1
01650	Calcium	7440-70-2	2,610	6.48	21.1		1
01654	Iron	7439-89-6	20,400	5.03	21.3		1
01656	Lithium	7439-93-2	24.0	0.23	2.1		1
01657	Magnesium	7439-95-4	4,180	2.68	10.6		1
06958	Manganese	7439-96-5	237	0.0824	0.528		1
10145	Phosphorus	7723-14-0	142	0.592	10.6		1
01662	Potassium	7440-09-7	2,250	19.0	52.8		1
01667	Sodium	7440-23-5	246	39.4	106		1
07968	Strontium	7440-24-6	25.9	0.0655	0.528		1
06969	Tin	7440-31-5	2.41 J	1.06	10.6		1
06970	Titanium	7440-32-6	1,370	2.01	5.28		5
10146	Zirconium	7440-67-7	1.85 J	0.887	5.28		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.180 J	0.0622	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	6.66	0.0622	0.414		2
06126	Barium	7440-39-3	130	0.112	0.414		2
06127	Beryllium	7440-41-7	0.792	0.0166	0.104		2
06128	Cadmium	7440-43-9	0.0887 J	0.0373	0.104		2
06131	Chromium	7440-47-3	25.9	0.124	0.414		2
06132	Cobalt	7440-48-4	6.25	0.0207	0.104		2
06133	Copper	7440-50-8	9.33	0.0690	0.418		2
06135	Lead	7439-92-1	7.07	0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.443	0.0518	0.104		2
06139	Nickel	7440-02-0	14.2	0.104	0.414		2
06141	Selenium	7782-49-2	0.0927 J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0442 J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.297	0.0311	0.104		2
06148	Vanadium	7440-62-2	46.6	0.0228	0.104		2
06149	Zinc	7440-66-6	64.4	0.580	3.11		2
	SW-846 7471A		mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.0	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9	0.86	1.6		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.3		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	

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Sample Description: SL-046-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-4.0-5.0

LLI Sample # SW 6153689
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 12/02/2010 09:15

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04645 SDG#: DE026-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	445	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.01	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	7.2	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-046-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	B103361AA	12/02/2010 17:37	Laura M Krieger	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 19:10	Jason M Long	25.88
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033623156	12/02/2010 16:33	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033623156	12/02/2010 16:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033623156	12/02/2010 16:56	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033623156	12/02/2010 16:31	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 07:14	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10337SLD026	12/14/2010 02:00	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10336SLB026	12/08/2010 15:16	Joseph M Gambler	1

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

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Sample Description: SL-046-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-4.0-5.0

LLI Sample # SW 6153689
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04645 SDG#: DE026-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10336SLB026	12/03/2010 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	10337SLD026	12/04/2010 10:30	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34A	12/02/2010 21:50	Marie D John	25.67
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033623156	12/02/2010 16:30	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 12:34	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103370016A	12/04/2010 16:35	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 19:39	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103370016A	12/02/2010 11:55	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103370020A	12/11/2010 13:03	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400009A	12/08/2010 20:03	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103400022A	12/06/2010 20:10	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103370023A	12/07/2010 09:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103370020A	12/03/2010 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103370023A	12/04/2010 10:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103400022A	12/06/2010 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400009A	12/08/2010 15:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10336001	12/03/2010 02:23	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103375708002	12/08/2010 07:52	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103375708002	12/08/2010 16:59	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103375708002	12/08/2010 07:52	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103435708004	12/10/2010 05:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103375708002	12/08/2010 07:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103375708002	12/08/2010 07:52	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103375708002	12/08/2010 07:52	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103375708002	12/08/2010 07:52	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103375708002	12/08/2010 07:52	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103375708002	12/08/2010 07:52	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103375708002	12/08/2010 07:52	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103375708002	12/08/2010 07:52	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103375708002	12/08/2010 17:29	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103375708002	12/10/2010 08:35	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103371026002D	12/08/2010 13:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2

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Sample Description: SL-046-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-4.0-5.0

LLI Sample # SW 6153689
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04645 SDG#: DE026-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026003A	12/12/2010 16:25	David K Beck	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103371026002C	12/09/2010 07:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103371026002B	12/08/2010 13:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103371026002A	12/08/2010 13:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103375711002	12/06/2010 09:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103375708002	12/05/2010 19:47	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103435708004	12/09/2010 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103431026003	12/09/2010 20:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103375711002	12/05/2010 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 01:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201A	12/12/2010 01:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 20:43	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 16:51	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201A	12/06/2010 19:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201A	12/06/2010 16:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10336182101A	12/02/2010 11:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10336039401A	12/02/2010 11:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	William C Schwebel	1

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Sample Description: SL-046-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-9.0-10.0

LLI Sample # SW 6153690
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:23 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04691 SDG#: DE026-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles EPA 1625C		ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	243	18.1	36.2		1
GC/MS	Semivolatiles SW-846 8270C		ug/kg	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

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Sample Description: SL-046-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-9.0-10.0

LLI Sample # SW 6153690
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:23 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04691 SDG#: DE026-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles SW-846 8270C		ug/kg	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	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	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	13	J 6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U 0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U 0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U 0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U 0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U 0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U 0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U 0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U 6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U 0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U 0.72	1.8		1
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81	U 81	160	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54	U 54	160	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	54	U 54	160	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	54	U 54	160	1000000 0	1

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Sample Description: SL-046-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-9.0-10.0

LLI Sample # SW 6153690
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:23 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04691 SDG#: DE026-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
SW-846 8330A			ug/kg	ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	54	U 54	160	1000000 0	1
10132	HMX	2691-41-0	140	U 140	410	1000000 0	1
10132	Nitrobenzene	98-95-3	54	U 54	160	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	160	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	160	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	160	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1000000 0	1
10132	RDX	121-82-4	68	U 68	160	1000000 0	1
10132	Tetryl	479-45-8	83	U 83	160	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	54	U 54	160	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	54	U 54	160	1000000 0	1
HPLC Organics							
SW-846 8315A			ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	650	U 650	1,600		1
Pesticides/PCBs							
SW-846 8082			ug/kg	ug/kg	ug/kg	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.							
GC Extractable TPH							
SW-846 8015B modified			mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43	U 0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U 0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U 0.43	1.3		1

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Sample Description: SL-046-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-9.0-10.0

LLI Sample # SW 6153690
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:23 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04691 SDG#: DE026-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH		SW-846 8015B modified	mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous		SW-846 8015B	ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	130	J	110	540		1
GC Miscellaneous		SW-846 8015B modified	mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
Terphenyls		SW-846 8015B	mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Misc. Organics		SW-846 8315A modified	ng/g		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2	U	2.2	5.4		1
10346	Hydrazine	302-01-2	0.54	U	0.54	2.2		1
10346	Methylhydrazine	60-34-4	2.2	U	2.2	5.4		1
Metals		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,000		5.25	20.9		1
07914	Boron	7440-42-8	12.6		0.929	5.22		1
01650	Calcium	7440-70-2	2,650		6.40	20.9		1
01654	Iron	7439-89-6	24,900		5.01	21.3		1
01656	Lithium	7439-93-2	27.2		0.23	2.1		1
01657	Magnesium	7439-95-4	5,030		2.65	10.4		1
06958	Manganese	7439-96-5	387		0.0814	0.522		1
10145	Phosphorus	7723-14-0	175		0.585	10.4		1
01662	Potassium	7440-09-7	2,450		18.8	52.2		1
01667	Sodium	7440-23-5	217		38.9	104		1
07968	Strontium	7440-24-6	27.0		0.0647	0.522		1
06969	Tin	7440-31-5	2.63	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,570		1.98	5.22		5
10146	Zirconium	7440-67-7	1.53	J	0.877	5.22		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.128	J	0.0645	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.								

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

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

Sample Description: SL-046-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-9.0-10.0

LLI Sample # SW 6153690
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:23 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04691 SDG#: DE026-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06125	Arsenic	7440-38-2	8.39	0.0645	0.430		2
06126	Barium	7440-39-3	131	0.116	0.430		2
06127	Beryllium	7440-41-7	0.838	0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0622 J	0.0387	0.108		2
06131	Chromium	7440-47-3	26.5	0.129	0.430		2
06132	Cobalt	7440-48-4	8.06	0.0215	0.108		2
06133	Copper	7440-50-8	8.28	0.0696	0.422		2
06135	Lead	7439-92-1	6.89	0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.466	0.0538	0.108		2
06139	Nickel	7440-02-0	15.0	0.108	0.430		2
06141	Selenium	7782-49-2	0.0430 U	0.0430	0.430		2
06142	Silver	7440-22-4	0.0186 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.292	0.0323	0.108		2
06148	Vanadium	7440-62-2	52.2	0.0237	0.108		2
06149	Zinc	7440-66-6	69.5	0.602	3.23		2
		SW-846 7471A	mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.2	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1 J	0.87	1.6		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.6		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.54		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	485	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.28	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	7.9	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

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

Sample Description: SL-046-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-9.0-10.0

LLI Sample # SW 6153690
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:23 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04691 SDG#: DE026-02

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
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 07:31	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10337SLD026	12/14/2010 03:16	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10336SLB026	12/09/2010 01:59	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10336SLB026	12/03/2010 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	10337SLD026	12/04/2010 10:30	Olivia I Santiago	1
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 13:17	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103370016A	12/04/2010 17:03	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 19:57	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103370016A	12/02/2010 11:55	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103370020A	12/11/2010 11:49	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400009A	12/08/2010 20:17	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103400022A	12/06/2010 19:53	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103370023A	12/07/2010 03:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103370020A	12/03/2010 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103370023A	12/04/2010 10:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103400022A	12/06/2010 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400009A	12/08/2010 15:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10336001	12/03/2010 02:43	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103375708002	12/08/2010 08:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103375708002	12/08/2010 17:49	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103375708002	12/08/2010 08:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103435708004	12/10/2010 05:29	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103375708002	12/08/2010 08:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103375708002	12/08/2010 08:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103375708002	12/08/2010 08:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103375708002	12/08/2010 08:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103375708002	12/08/2010 08:15	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103375708002	12/08/2010 08:15	Tara L Snyder	1

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

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

Sample Description: SL-046-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-9.0-10.0

LLI Sample # SW 6153690
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:23 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04691 SDG#: DE026-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103375708002	12/08/2010 08:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103375708002	12/08/2010 08:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103375708002	12/08/2010 17:53	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103375708002	12/10/2010 09:02	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103371026002D	12/08/2010 13:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026003A	12/12/2010 16:36	David K Beck	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103371026002C	12/09/2010 20:25	David K Beck	2
06139	Nickel	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103371026002B	12/08/2010 13:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103371026002A	12/09/2010 07:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103371026002A	12/08/2010 13:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103375711002	12/06/2010 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103375708002	12/05/2010 19:47	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103435708004	12/09/2010 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103431026003	12/09/2010 20:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103375711002	12/05/2010 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 01:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201A	12/12/2010 01:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 21:07	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 17:04	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201A	12/06/2010 19:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201A	12/06/2010 16:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10336182101A	12/02/2010 11:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10336039401A	12/02/2010 11:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1

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

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



Analysis Report

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

Page 8 of 8

Sample Description: SL-046-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5C-SB-9.0-10.0

LLI Sample # SW 6153690
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 10:23 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04691 SDG#: DE026-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	William C Schwebel	1

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

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

Sample Description: SL-044-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-4.0-5.0

LLI Sample # SW 6153691
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:46 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04445 SDG#: DE026-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3 U	7.3	8.7		0.93
06192	Benzene	71-43-2	0.11 U	0.11	4.3		0.93
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3		0.93
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.3		0.93
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3		0.93
06192	Bromoform	75-25-2	0.43 U	0.43	4.3		0.93
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3		0.93
06192	2-Butanone	78-93-3	1.3 U	1.3	8.7		0.93
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3		0.93
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.3		0.93
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3		0.93
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3		0.93
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3		0.93
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.3		0.93
06192	Chloroform	67-66-3	0.13 U	0.13	4.3		0.93
06192	Chloromethane	74-87-3	0.36 U	0.36	4.3		0.93
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3		0.93
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3		0.93
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76 U	0.76	4.3		0.93
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.3		0.93
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3		0.93
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3		0.93
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3		0.93
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3		0.93
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.3		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3		0.93
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3		0.93
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3		0.93
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3		0.93
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3		0.93
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.3		0.93
06192	Freon 113	76-13-1	0.12 U	0.12	4.3		0.93
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4		0.93
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3		0.93
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.7		0.93
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.3		0.93
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.3		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.7		0.93
06192	Methylene Chloride	75-09-2	0.90 J	0.26	4.3		0.93
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.3		0.93

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Sample Description: SL-044-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-4.0-5.0

LLI Sample # SW 6153691
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:46 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04445 SDG#: DE026-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.3		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.3		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.3		0.93
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.3		0.93
06192	Toluene	108-88-3	0.09 U	0.09	4.3		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.3		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.3		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.3		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.3		0.93
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.3		0.93
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.3		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.3		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.3		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.3		0.93
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.3		0.93
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.3		0.93
06192	o-Xylene	95-47-6	0.18 U	0.18	4.3		0.93
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.7 U	4.7	14		20.19
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	870	19.3	38.7		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580		1
04688	Benzidine	92-87-5	1,400	U 1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U 190	580		1
04688	Benzyl alcohol	100-51-6	190	U 190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	190		1
04688	4-Chloroaniline	106-47-8	77	U 77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300		1

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Sample Description: SL-044-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-4.0-5.0

LLI Sample # SW 6153691
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:46 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04445 SDG#: DE026-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	39	U 39	190		1
04688	4-Methylphenol	106-44-5	39	U 39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	39	U 39	190		1
04688	4-Nitroaniline	100-01-6	77	U 77	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	580		1
04688	Phenol	108-95-2	19	U 19	190		1
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	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U 0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U 0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U 0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U 0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U 7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U 7.0	21		1
10138	Chrysene	218-01-9	0.39	U 0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U 7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U 7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U 7.0	21		1
10138	Fluoranthene	206-44-0	0.77	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

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Sample Description: SL-044-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-4.0-5.0

LLI Sample # SW 6153691
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:46 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04445 SDG#: DE026-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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	7.0 U	7.0	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
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0		22.52
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	87	U 87	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	58	U 58	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U 120	350	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U 120	350	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	300	58	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	58	U 58	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	58	U 58	170	1000000 0	1
10132	HMX	2691-41-0	150	U 150	440	1000000 0	1
10132	Nitrobenzene	98-95-3	58	U 58	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,200	U 1,200	3,500	1000000 0	1
10132	2-Nitrotoluene	88-72-2	120	U 120	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	150	U 150	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	120	U 120	170	1000000 0	1
10132	PETN	78-11-5	1,200	U 1,200	3,500	1000000 0	1
10132	RDX	121-82-4	73	U 73	170	1000000 0	1
10132	Tetryl	479-45-8	89	U 89	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	58	U 58	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	58	U 58	170	1000000 0	1

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Sample Description: SL-044-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-4.0-5.0

LLI Sample # SW 6153691
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:46 by PH

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14420 Albemarle Point Place
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04445 SDG#: DE026-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	700 U	700	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46 U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46 U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46 U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46 U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46 U	0.46	1.4		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120 J	120	580		1
10501	Isopropanol	67-63-0	120 U	120	580		1
10501	Methanol	67-56-1	120 U	120	580		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.8 U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8 U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8 U	5.8	15		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	4.1		1
Misc. Organics							
		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.3 U	2.3	5.8		1
10346	Hydrazine	302-01-2	0.58 U	0.58	2.3		1
10346	Methylhydrazine	60-34-4	2.3 U	2.3	5.8		1

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Sample Description: SL-044-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-4.0-5.0

LLI Sample # SW 6153691
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:46 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04445 SDG#: DE026-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	24,500	5.72	22.7		1
07914	Boron	7440-42-8	14.9	1.01	5.69		1
01650	Calcium	7440-70-2	3,530	6.97	22.7		1
01654	Iron	7439-89-6	23,200	5.46	23.2		1
01656	Lithium	7439-93-2	29.6	0.25	2.3		1
01657	Magnesium	7439-95-4	5,810	2.89	11.4		1
06958	Manganese	7439-96-5	204	0.0887	0.569		1
10145	Phosphorus	7723-14-0	120	0.637	11.4		1
01662	Potassium	7440-09-7	2,430	20.5	56.9		1
01667	Sodium	7440-23-5	156	42.4	114		1
07968	Strontium	7440-24-6	31.7	0.0705	0.569		1
06969	Tin	7440-31-5	2.86 J	1.14	11.4		1
06970	Titanium	7440-32-6	1,660	2.16	5.69		5
10146	Zirconium	7440-67-7	1.64 J	0.955	5.69		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.191 J	0.0696	0.232		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	7.49	0.0696	0.464		2
06126	Barium	7440-39-3	174	0.125	0.464		2
06127	Beryllium	7440-41-7	0.867	0.0186	0.116		2
06128	Cadmium	7440-43-9	0.0735 J	0.0418	0.116		2
06131	Chromium	7440-47-3	35.6	0.139	0.464		2
06132	Cobalt	7440-48-4	7.04	0.0232	0.116		2
06133	Copper	7440-50-8	9.42	0.0743	0.451		2
06135	Lead	7439-92-1	8.35	0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.287	0.0580	0.116		2
06139	Nickel	7440-02-0	17.7	0.116	0.464		2
06141	Selenium	7782-49-2	0.0735 J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0295 J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.318	0.0348	0.116		2
06148	Vanadium	7440-62-2	61.3	0.0255	0.116		2
06149	Zinc	7440-66-6	75.8	0.650	3.48		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0134 J	0.0033	0.115		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.1	0.93	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	

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Sample Description: SL-044-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-4.0-5.0

LLI Sample # SW 6153691
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:46 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04445 SDG#: DE026-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2	mg/kg	1
SW-846 7199							
05895	21a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57	mg/kg	1
SW-846 9012B							
01821	Oxidation Reduction Potential	n.a.	555	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
ASTM D1498							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	6.67	0.0100	0.0100	Std. Units	1
Wet Chemistry							
11624	28a Total Solids by 160.3	n.a.	13.8	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
The volatile analysis was performed on soil from SL-044-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	B103361AA	12/02/2010 17:59	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 19:30	Jason M Long	20.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033623156	12/02/2010 16:39	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033623156	12/02/2010 16:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033623156	12/02/2010 16:56	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033623156	12/02/2010 16:36	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 07:48	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10337SLD026	12/14/2010 03:41	Ryan P Byrne	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-044-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-4.0-5.0

LLI Sample # SW 6153691
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:46 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04445 SDG#: DE026-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10336SLB026	12/09/2010 02:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10336SLB026	12/03/2010 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	10337SLD026	12/04/2010 10:30	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34A	12/02/2010 21:14	Marie D John	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033623156	12/02/2010 16:35	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 15:24	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103370016A	12/04/2010 17:13	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 20:16	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103370016A	12/02/2010 11:55	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103370020A	12/11/2010 12:14	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400009A	12/08/2010 20:32	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103400022A	12/06/2010 19:37	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103370023A	12/07/2010 04:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103370020A	12/03/2010 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103370023A	12/04/2010 10:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103400022A	12/06/2010 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400009A	12/08/2010 15:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10336001	12/03/2010 03:04	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103375708002	12/08/2010 08:26	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103375708002	12/08/2010 18:07	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103375708002	12/08/2010 08:26	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103435708004	12/10/2010 05:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103375708002	12/08/2010 08:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103375708002	12/08/2010 08:26	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103375708002	12/08/2010 08:26	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103375708002	12/08/2010 08:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103375708002	12/08/2010 08:26	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103375708002	12/08/2010 08:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103375708002	12/08/2010 08:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103375708002	12/08/2010 08:26	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103375708002	12/08/2010 17:57	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103375708002	12/10/2010 09:13	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103371026002D	12/08/2010 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2

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Sample Description: SL-044-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-4.0-5.0

LLI Sample # SW 6153691
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:46 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04445 SDG#: DE026-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026003A	12/12/2010 16:38	David K Beck	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103371026002C	12/09/2010 20:27	David K Beck	2
06139	Nickel	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103371026002B	12/08/2010 13:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103371026002A	12/09/2010 07:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103371026002A	12/08/2010 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103375711002	12/06/2010 09:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103375708002	12/05/2010 19:47	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103435708004	12/09/2010 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103431026003	12/09/2010 20:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103375711002	12/05/2010 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 02:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201A	12/12/2010 02:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 21:31	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 17:17	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201A	12/06/2010 19:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201A	12/06/2010 16:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10336182101A	12/02/2010 11:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10336039401A	12/02/2010 11:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	William C Schwebel	1

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

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Sample Description: SL-044-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-9.0-10.0

LLI Sample # SW 6153692
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:50 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04491 SDG#: DE026-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles EPA 1625C		ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	567	18.9	37.9		1
GC/MS	Semivolatiles SW-846 8270C		ug/kg	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

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

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

Sample Description: SL-044-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-9.0-10.0

LLI Sample # SW 6153692
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:50 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04491 SDG#: DE026-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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	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	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U 0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U 0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U 0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	20		1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U 6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U 0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U 0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U 0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U 0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U 6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U 0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U 0.76	1.9		1
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85	U 85	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U 57	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	57	U 57	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	57	U 57	170	1000000 0	1

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Sample Description: SL-044-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-9.0-10.0

LLI Sample # SW 6153692
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:50 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04491 SDG#: DE026-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
SW-846 8330A			ug/kg	ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	57	U 57	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	430	1000000 0	1
10132	Nitrobenzene	98-95-3	57	U 57	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,400	1000000 0	1
10132	RDX	121-82-4	71	U 71	170	1000000 0	1
10132	Tetryl	479-45-8	87	U 87	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U 57	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U 57	170	1000000 0	1
HPLC Organics							
SW-846 8315A			ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	680	U 680	1,700		1
Pesticides/PCBs							
SW-846 8082			ug/kg	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.							
GC Extractable TPH							
SW-846 8015B modified			mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U 0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U 0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U 0.45	1.4		1

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

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

Sample Description: SL-044-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-9.0-10.0

LLI Sample # SW 6153692
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:50 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04491 SDG#: DE026-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH SW-846 8015B modified mg/kg mg/kg mg/kg mg/kg							
10199	EFH (C30 - C40)	n.a.	1.5	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45 U	0.45	1.4		1
GC Miscellaneous SW-846 8015B ug/kg ug/kg ug/kg ug/kg							
10501	Ethanol	64-17-5	110 U	110	570		1
10501	Isopropanol	67-63-0	110 U	110	570		1
10501	Methanol	67-56-1	110 U	110	570		1
GC Miscellaneous SW-846 8015B modified mg/kg mg/kg mg/kg mg/kg							
08283	Diethylene glycol	111-46-6	5.7 U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7 U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7 U	5.7	14		1
Terphenyls SW-846 8015B mg/kg mg/kg mg/kg mg/kg							
10318	m-Terphenyl	92-06-8	1.7 U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	4.0		1
Misc. Organics SW-846 8315A modified ng/g ng/g ng/g ng/g							
10346	1,1-Dimethylhydrazine	57-14-7	2.3 U	2.3	5.7		1
10346	Hydrazine	302-01-2	0.90 J	0.57	2.3		1
10346	Methylhydrazine	60-34-4	2.3 U	2.3	5.7		1
Metals SW-846 6010B mg/kg mg/kg mg/kg mg/kg							
01643	Aluminum	7429-90-5	21,300	5.72	22.7		1
07914	Boron	7440-42-8	13.8	1.01	5.68		1
01650	Calcium	7440-70-2	2,500	6.97	22.7		1
01654	Iron	7439-89-6	24,400	5.35	22.7		1
01656	Lithium	7439-93-2	23.3	0.25	2.3		1
01657	Magnesium	7439-95-4	4,610	2.89	11.4		1
06958	Manganese	7439-96-5	234	0.0886	0.568		1
10145	Phosphorus	7723-14-0	143	0.636	11.4		1
01662	Potassium	7440-09-7	1,660	20.5	56.8		1
01667	Sodium	7440-23-5	120	42.4	114		1
07968	Strontium	7440-24-6	24.9	0.0705	0.568		1
06969	Tin	7440-31-5	2.71 J	1.14	11.4		1
06970	Titanium	7440-32-6	1,450	2.16	5.68		5
10146	Zirconium	7440-67-7	1.49 J	0.955	5.68		1
SW-846 6020 mg/kg mg/kg mg/kg mg/kg							
06124	Antimony	7440-36-0	0.196 J	0.0668	0.223		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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

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

Sample Description: SL-044-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-9.0-10.0

LLI Sample # SW 6153692
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:50 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04491 SDG#: DE026-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06125	Arsenic	7440-38-2	7.38	0.0668	0.446		2
06126	Barium	7440-39-3	157	0.120	0.446		2
06127	Beryllium	7440-41-7	0.882	0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0912 J	0.0401	0.111		2
06131	Chromium	7440-47-3	28.5	0.134	0.446		2
06132	Cobalt	7440-48-4	5.96	0.0223	0.111		2
06133	Copper	7440-50-8	8.91	0.0735	0.446		2
06135	Lead	7439-92-1	7.48	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.424	0.0557	0.111		2
06139	Nickel	7440-02-0	14.6	0.111	0.446		2
06141	Selenium	7782-49-2	0.0713 J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0551 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.333	0.0334	0.111		2
06148	Vanadium	7440-62-2	54.0	0.0245	0.111		2
06149	Zinc	7440-66-6	60.1	0.624	3.34		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91 U	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5	0.91	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	543	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	Std. Units	
00394	22a pH by 9045C	n.a.	6.94	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	12.0	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

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

Sample Description: SL-044-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-9.0-10.0

LLI Sample # SW 6153692
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:50 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04491 SDG#: DE026-04

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
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 08:05	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10337SLD026	12/14/2010 04:06	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10336SLB026	12/09/2010 03:04	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10336SLB026	12/03/2010 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	10337SLD026	12/04/2010 10:30	Olivia I Santiago	1
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 16:06	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103370016A	12/04/2010 17:22	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 21:48	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103370016A	12/02/2010 11:55	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103370020A	12/11/2010 12:38	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400009A	12/08/2010 20:46	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103400022A	12/06/2010 18:33	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103370023A	12/07/2010 05:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103370020A	12/03/2010 17:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103370023A	12/04/2010 10:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103400022A	12/06/2010 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400009A	12/08/2010 15:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10336001	12/03/2010 03:24	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103375708002	12/08/2010 08:30	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103375708002	12/08/2010 18:11	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103375708002	12/08/2010 08:30	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103435708004	12/10/2010 05:44	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103375708002	12/08/2010 08:30	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103375708002	12/08/2010 08:30	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103375708002	12/08/2010 08:30	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103375708002	12/08/2010 08:30	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103375708002	12/08/2010 08:30	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103375708002	12/08/2010 08:30	Tara L Snyder	1

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

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

Sample Description: SL-044-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-9.0-10.0

LLI Sample # SW 6153692
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:50 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04491 SDG#: DE026-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103375708002	12/08/2010 08:30	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103375708002	12/08/2010 08:30	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103375708002	12/08/2010 18:15	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103375708002	12/10/2010 09:17	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103371026002D	12/08/2010 13:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026003A	12/12/2010 16:43	David K Beck	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103371026002C	12/09/2010 07:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103371026002B	12/08/2010 13:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103371026002A	12/08/2010 13:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103375711002	12/06/2010 09:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103375708002	12/05/2010 19:47	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103435708004	12/09/2010 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103431026003	12/09/2010 20:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103375711002	12/05/2010 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 02:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201A	12/12/2010 02:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 21:55	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 17:30	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201B	12/06/2010 19:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201B	12/06/2010 16:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10336182101A	12/02/2010 11:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10336039401A	12/02/2010 11:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1

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

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



Analysis Report

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Page 8 of 8

Sample Description: SL-044-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5C-SB-9.0-10.0

LLI Sample # SW 6153692
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 11:50 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04491 SDG#: DE026-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	William C Schwebel	1

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

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

Sample Description: TB-120110 Water
SSFL Area IV Collocated Soil Sampling
TB-120110

LLI Sample # WW 6153693
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 13:30 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

TB201 SDG#: DE026-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	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

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

Sample Description: TB-120110 Water
SSFL Area IV Collocated Soil Sampling
TB-120110

LLI Sample # WW 6153693
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 13:30 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

TB201 SDG#: DE026-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	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	ug/l	
00527	1,4-Dioxane	123-91-1	0.5 U	0.5	2.0		1
GC	Volatiles	TPH GRO SW-8015B	ug/l	ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20 U	20	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
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103422AA	12/08/2010 15:07	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103351AB	12/02/2010 12:15	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103351AB	12/02/2010 12:15	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103422AA	12/08/2010 15:07	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10341B20A	12/07/2010 22:48	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10341B20A	12/07/2010 22:48	Tyler O Griffin	1

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

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

Sample Description: SL-045-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-4.0-5.0

LLI Sample # SW 6153694
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04545 SDG#: DE026-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2 U	7.2	8.6		0.97
06192	Benzene	71-43-2	0.11 U	0.11	4.3		0.97
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3		0.97
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.3		0.97
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3		0.97
06192	Bromoform	75-25-2	0.43 U	0.43	4.3		0.97
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3		0.97
06192	2-Butanone	78-93-3	1.3 U	1.3	8.6		0.97
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3		0.97
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.3		0.97
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3		0.97
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3		0.97
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3		0.97
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.3		0.97
06192	Chloroform	67-66-3	0.13 U	0.13	4.3		0.97
06192	Chloromethane	74-87-3	0.36 U	0.36	4.3		0.97
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3		0.97
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3		0.97
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76 U	0.76	4.3		0.97
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.3		0.97
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3		0.97
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3		0.97
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3		0.97
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3		0.97
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.3		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3		0.97
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3		0.97
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3		0.97
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3		0.97
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3		0.97
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.3		0.97
06192	Freon 113	76-13-1	0.12 U	0.12	4.3		0.97
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4		0.97
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3		0.97
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.6		0.97
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.3		0.97
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.3		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.6		0.97
06192	Methylene Chloride	75-09-2	1.2 J	0.26	4.3		0.97
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.3		0.97

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

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

Sample Description: SL-045-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-4.0-5.0

LLI Sample # SW 6153694
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04545 SDG#: DE026-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.3		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.3		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.3		0.97
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.3		0.97
06192	Toluene	108-88-3	0.09 J	0.09	4.3		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.3		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.3		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.3		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.3		0.97
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.3		0.97
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.3		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.3		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.3		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.3		0.97
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.3		0.97
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.3		0.97
06192	o-Xylene	95-47-6	0.18 U	0.18	4.3		0.97
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		23.63
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

Sample Description: SL-045-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-4.0-5.0

LLI Sample # SW 6153694
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04545 SDG#: DE026-06

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

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

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

Sample Description: SL-045-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-4.0-5.0

LLI Sample # SW 6153694
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04545 SDG#: DE026-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals SW-846 6010B							
01643	Aluminum	7429-90-5	27,500	5.43	21.6		1
07914	Boron	7440-42-8	13.6	0.961	5.40		1
01650	Calcium	7440-70-2	2,760	6.62	21.6		1
01654	Iron	7439-89-6	27,500	5.04	21.4		1
01656	Lithium	7439-93-2	28.8	0.24	2.2		1
01657	Magnesium	7439-95-4	5,430	2.74	10.8		1
06958	Manganese	7439-96-5	196	0.0842	0.540		1
10145	Phosphorus	7723-14-0	150	0.605	10.8		1
01662	Potassium	7440-09-7	2,340	19.4	54.0		1
01667	Sodium	7440-23-5	404	40.3	108		1
07968	Strontium	7440-24-6	31.4	0.0670	0.540		1
06969	Tin	7440-31-5	2.93 J	1.08	10.8		1
06970	Titanium	7440-32-6	1,650	2.05	5.40		5
10146	Zirconium	7440-67-7	2.17 J	0.907	5.40		1
SW-846 6020							
06124	Antimony	7440-36-0	0.207 J	0.0654	0.218		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.78	0.0654	0.436		2
06126	Barium	7440-39-3	164	0.118	0.436		2
06127	Beryllium	7440-41-7	0.950	0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0393 U	0.0393	0.109		2
06131	Chromium	7440-47-3	31.7	0.131	0.436		2
06132	Cobalt	7440-48-4	5.52	0.0218	0.109		2
06133	Copper	7440-50-8	8.89	0.0734	0.445		2

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

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

Sample Description: SL-045-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-4.0-5.0

LLI Sample # SW 6153694
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04545 SDG#: DE026-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	8.02	0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.646	0.0545	0.109		2
06139	Nickel	7440-02-0	14.3	0.109	0.436		2
06141	Selenium	7782-49-2	0.0771 J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0804 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.339	0.0327	0.109		2
06148	Vanadium	7440-62-2	58.1	0.0240	0.109		2
06149	Zinc	7440-66-6	58.0	0.611	3.27		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0076 J	0.0031	0.109		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.4	0.89	1.1		1
		EPA 314.0	ug/kg	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	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	2.5	0.22	1.1		1
		ASTM D1498	mV	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	Std. Units	
00394	22a pH by 9045C	n.a.	6.98	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	10.1	0.50	0.50		1
		"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-045-SA5C-SB-4.5.

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

Sample Description: SL-045-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-4.0-5.0

LLI Sample # SW 6153694
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04545 SDG#: DE026-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103361AA	12/02/2010 18:21	Laura M Krieger	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 19:49	Jason M Long	23.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033623156	12/02/2010 16:44	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033623156	12/02/2010 16:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033623156	12/02/2010 16:56	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033623156	12/02/2010 16:41	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10337SLD026	12/14/2010 04:31	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10336SLB026	12/09/2010 03:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10336SLB026	12/03/2010 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	10337SLD026	12/04/2010 10:30	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 22:07	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103375708002	12/08/2010 08:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103375708002	12/08/2010 18:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103375708002	12/08/2010 08:34	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103435708004	12/10/2010 05:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103375708002	12/08/2010 08:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103375708002	12/08/2010 08:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103375708002	12/08/2010 08:34	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103375708002	12/08/2010 08:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103375708002	12/08/2010 08:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103375708002	12/08/2010 08:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103375708002	12/08/2010 08:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103375708002	12/08/2010 08:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103375708002	12/08/2010 18:23	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103375708002	12/10/2010 09:20	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103371026002D	12/08/2010 13:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026003A	12/12/2010 16:45	David K Beck	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103371026002C	12/09/2010 07:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103371026002B	12/08/2010 13:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103371026002A	12/08/2010 13:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103375711002	12/06/2010 09:25	Damary Valentin	1

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

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

Sample Description: SL-045-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-4.0-5.0

LLI Sample # SW 6153694
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:18 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04545 SDG#: DE026-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103375708002	12/05/2010 19:47	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103435708004	12/09/2010 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103431026003	12/09/2010 20:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103375711002	12/05/2010 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 03:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 22:19	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 17:43	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10336182101A	12/02/2010 11:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10336039401A	12/02/2010 11:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401B	12/08/2010 11:42	William C Schwebel	1

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

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

Sample Description: SL-047-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5C-SB-4.0-5.0

LLI Sample # SW 6153695
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 15:29 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04745 SDG#: DE026-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8 U	6.8	8.2		0.88
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.88
06192	2-Butanone	78-93-3	1.2 U	1.2	8.2		0.88
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.88
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51 U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.1		0.88
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.1		0.88
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.51 U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.2		0.88
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.2		0.88
06192	Methylene Chloride	75-09-2	1.2 J	0.25	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.88

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

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

Sample Description: SL-047-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5C-SB-4.0-5.0

LLI Sample # SW 6153695
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 15:29 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04745 SDG#: DE026-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.1		0.88
06192	Toluene	108-88-3	0.08 J	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1		0.88
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.1		0.88
06192	o-Xylene	95-47-6	0.17 U	0.17	4.1		0.88
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		22.85
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U 190	580		1
04688	Benzyl alcohol	100-51-6	190	U 190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	190		1
04688	4-Chloroaniline	106-47-8	77	U 77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1

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

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

Sample Description: SL-047-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5C-SB-4.0-5.0

LLI Sample # SW 6153695
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 15:29 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04745 SDG#: DE026-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	39	U 39	190		1
04688	4-Methylphenol	106-44-5	39	U 39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	39	U 39	190		1
04688	4-Nitroaniline	100-01-6	77	U 77	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	580		1
04688	Phenol	108-95-2	19	U 19	190		1
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	ug/kg	
10138	Acenaphthene	83-32-9	0.77 U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39 U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39 U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77 U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77 U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77 U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77 U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77 U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9 U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9 U	6.9	21		1
10138	Chrysene	218-01-9	0.39 U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77 U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9 U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9 U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9 U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77 U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77 U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77 U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77 U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77 U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77 U	0.77	1.9		1

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

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

Sample Description: SL-047-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5C-SB-4.0-5.0

LLI Sample # SW 6153695
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 15:29 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04745 SDG#: DE026-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	N-Nitrosodimethylamine	62-75-9	0.77 U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9 U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77 U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77 U	0.77	1.9		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.2 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							
01643	Aluminum	7429-90-5	31,200	5.70	22.7		1
07914	Boron	7440-42-8	16.3	1.01	5.67		1
01650	Calcium	7440-70-2	4,190	6.95	22.7		1
01654	Iron	7439-89-6	37,800	10.8	45.8		2
01656	Lithium	7439-93-2	43.4	0.25	2.3		1
01657	Magnesium	7439-95-4	6,720	2.88	11.3		1
06958	Manganese	7439-96-5	162	0.0884	0.567		1
10145	Phosphorus	7723-14-0	98.6	0.635	11.3		1
01662	Potassium	7440-09-7	1,740	20.4	56.7		1
01667	Sodium	7440-23-5	415	42.3	113		1
07968	Strontium	7440-24-6	47.8	0.0703	0.567		1
06969	Tin	7440-31-5	2.96 J	1.13	11.3		1
06970	Titanium	7440-32-6	1,220	2.15	5.67		5
10146	Zirconium	7440-67-7	1.52 J	0.952	5.67		1
SW-846 6020							
06124	Antimony	7440-36-0	0.223 J	0.0680	0.227		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.16	0.0680	0.453		2
06126	Barium	7440-39-3	175	0.306	1.13		5
06127	Beryllium	7440-41-7	1.07	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.102 J	0.0408	0.113		2
06131	Chromium	7440-47-3	43.0	0.136	0.453		2
06132	Cobalt	7440-48-4	6.49	0.0227	0.113		2
06133	Copper	7440-50-8	15.8	0.0748	0.453		2

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

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

Sample Description: SL-047-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5C-SB-4.0-5.0

LLI Sample # SW 6153695
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 15:29 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04745 SDG#: DE026-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	8.84	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.322	0.0567	0.113		2
06139	Nickel	7440-02-0	21.8	0.113	0.453		2
06141	Selenium	7782-49-2	0.0667 J	0.0453	0.453		2
06142	Silver	7440-22-4	0.109 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.406	0.0340	0.113		2
06148	Vanadium	7440-62-2	70.2	0.0249	0.113		2
06149	Zinc	7440-66-6	84.9	0.635	3.40		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0077 J	0.0032	0.113		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6	0.92	1.2		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.7		1
		SW-846 7199	mg/kg	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	mV	
01821	Oxidation Reduction Potential	n.a.	509	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.20	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	13.5	0.50	0.50		1
		"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-047-SA5C-SB-4.5.

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

Sample Description: SL-047-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5C-SB-4.0-5.0

LLI Sample # SW 6153695
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 15:29 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04745 SDG#: DE026-07

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	B103361AA	12/02/2010 18:44	Laura M Krieger	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 20:09	Jason M Long	22.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033623156	12/02/2010 16:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033623156	12/02/2010 16:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033623156	12/02/2010 16:56	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033623156	12/02/2010 16:45	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10337SLD026	12/14/2010 04:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10336SLB026	12/09/2010 04:09	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10336SLB026	12/03/2010 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	10337SLD026	12/04/2010 10:30	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 22:26	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103375708002	12/08/2010 08:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103375708002	12/08/2010 18:26	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103375708002	12/08/2010 08:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103435708004	12/10/2010 12:32	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	103375708002	12/08/2010 08:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103375708002	12/08/2010 08:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103375708002	12/08/2010 08:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103375708002	12/08/2010 08:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103375708002	12/08/2010 08:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103375708002	12/08/2010 08:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103375708002	12/08/2010 08:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103375708002	12/08/2010 08:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103375708002	12/08/2010 18:30	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103375708002	12/10/2010 09:24	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103371026002D	12/08/2010 13:40	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026003A	12/12/2010 16:47	David K Beck	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103371026002C	12/09/2010 07:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103371026002B	12/08/2010 13:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103371026002A	12/08/2010 13:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103375711002	12/06/2010 09:27	Damary Valentin	1

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

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

Sample Description: SL-047-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5C-SB-4.0-5.0

LLI Sample # SW 6153695
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 15:29 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04745 SDG#: DE026-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103375708002	12/05/2010 19:47	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103435708004	12/09/2010 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103431026003	12/09/2010 20:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103375711002	12/05/2010 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 03:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 22:43	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 17:55	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10336182101A	12/02/2010 11:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10336039401A	12/02/2010 11:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401B	12/08/2010 11:42	William C Schwebel	1

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

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

Sample Description: SL-045-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-8.0-9.0

LLI Sample # SW 6153696
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:22 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04589 SDG#: DE026-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

Sample Description: SL-045-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-8.0-9.0

LLI Sample # SW 6153696
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:22 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04589 SDG#: DE026-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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	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	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35 U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56 U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35 U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35 U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35 U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35 U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35 U	0.35	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,700	5.30	21.1		1

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

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

Sample Description: SL-045-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-8.0-9.0

LLI Sample # SW 6153696
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:22 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04589 SDG#: DE026-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	11.2	0.938	5.27		1
01650	Calcium	7440-70-2	2,010	6.46	21.1		1
01654	Iron	7439-89-6	19,000	4.92	20.9		1
01656	Lithium	7439-93-2	23.8	0.23	2.1		1
01657	Magnesium	7439-95-4	4,190	2.68	10.5		1
06958	Manganese	7439-96-5	161	0.0822	0.527		1
10145	Phosphorus	7723-14-0	145	0.590	10.5		1
01662	Potassium	7440-09-7	2,080	19.0	52.7		1
01667	Sodium	7440-23-5	374	39.3	105		1
07968	Strontium	7440-24-6	20.9	0.0654	0.527		1
06969	Tin	7440-31-5	2.44 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,350	2.00	5.27		5
10146	Zirconium	7440-67-7	1.34 J	0.886	5.27		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0760 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	7.66	0.0626	0.418		2
06126	Barium	7440-39-3	88.5	0.113	0.418		2
06127	Beryllium	7440-41-7	0.666	0.0167	0.104		2
06128	Cadmium	7440-43-9	0.116	0.0376	0.104		2
06131	Chromium	7440-47-3	17.1	0.125	0.418		2
06132	Cobalt	7440-48-4	5.25	0.0209	0.104		2
06133	Copper	7440-50-8	6.64	0.0696	0.422		2
06135	Lead	7439-92-1	5.39	0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.368	0.0522	0.104		2
06139	Nickel	7440-02-0	9.94	0.104	0.418		2
06141	Selenium	7782-49-2	0.0418 U	0.0418	0.418		2
06142	Silver	7440-22-4	0.0267 J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.338	0.0313	0.104		2
06148	Vanadium	7440-62-2	36.5	0.0230	0.104		2
06149	Zinc	7440-66-6	51.9	0.585	3.13		2
	SW-846 7471A		mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.0	0.86	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.3		1
	SW-846 7199		mg/kg	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

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

Sample Description: SL-045-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-8.0-9.0

LLI Sample # SW 6153696
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:22 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04589 SDG#: DE026-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.45	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	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	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10337SLD026	12/14/2010 05:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10336SLB026	12/09/2010 04:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10336SLB026	12/03/2010 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	10337SLD026	12/04/2010 10:30	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 22:44	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103375708002	12/08/2010 08:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103375708002	12/08/2010 18:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103375708002	12/08/2010 08:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103435708004	12/10/2010 05:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103375708002	12/08/2010 08:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103375708002	12/08/2010 08:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103375708002	12/08/2010 08:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103375708002	12/08/2010 08:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103375708002	12/08/2010 08:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103375708002	12/08/2010 08:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103375708002	12/08/2010 08:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103375708002	12/08/2010 08:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103375708002	12/08/2010 18:37	Eric L Eby	5

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

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

Sample Description: SL-045-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5C-SB-8.0-9.0

LLI Sample # SW 6153696
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 14:22 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

04589 SDG#: DE026-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103375708002	12/10/2010 09:28	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103371026002D	12/08/2010 13:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026003A	12/12/2010 16:48	David K Beck	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103371026002C	12/09/2010 08:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103371026002B	12/08/2010 13:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103371026002A	12/08/2010 13:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103375711002	12/06/2010 09:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103375708002	12/05/2010 19:47	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103435708004	12/09/2010 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103431026003	12/09/2010 20:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103375711002	12/05/2010 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 03:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 19:24	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 18:08	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10336182101A	12/02/2010 11:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10336039401A	12/02/2010 11:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401B	12/08/2010 11:42	William C Schwebel	1

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

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

Sample Description: EB12-SA5C-120110 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5C-120110

LLI Sample # WW 6153697
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 15:45 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

EB-12 SDG#: DE026-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.36	0.527	1.05		1
GC Volatiles TPH GRO SW-8015B			ug/l	ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20 U	20	50		1
Explosives SW-846 8330A			ug/l	ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30 U	0.30	0.60	1000000 0	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20 U	0.20	0.60	1000000 0	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20 U	0.20	0.60	1000000 0	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20 U	0.20	0.60	1000000 0	1
10131	1,3-Dinitrobenzene	99-65-0	0.53 J	0.20	0.60	1000000 0	1
10131	2,4-Dinitrotoluene	121-14-2	0.20 U	0.20	0.60	1000000 0	1
10131	2,6-Dinitrotoluene	606-20-2	0.20 U	0.20	0.60	1000000 0	1
10131	HMX	2691-41-0	0.86 J	0.65	2.0	1000000 0	1
10131	Nitrobenzene	98-95-3	0.20 U	0.20	0.60	1000000 0	1
10131	Nitroglycerin	55-63-0	5.2 U	5.2	15	1000000 0	1
10131	2-Nitrotoluene	88-72-2	0.20 U	0.20	0.60	1000000 0	1
10131	3-Nitrotoluene	99-08-1	0.40 U	0.40	1.2	1000000 0	1
10131	4-Nitrotoluene	99-99-0	0.60 U	0.60	1.2	1000000 0	1
10131	PETN	78-11-5	6.0 U	6.0	18	1000000 0	1
10131	RDX	121-82-4	0.20 U	0.20	0.60	1000000 0	1
10131	Tetryl	479-45-8	0.40 U	0.40	0.60	1000000 0	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20 U	0.20	0.60	1000000 0	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20 U	0.20	0.60	1000000 0	1

1,3-dinitrobenzene was detected in the method blank at a concentration of 0.44 ug/l. The LCS recovery for 1,3-dinitrobenzene is outside the QC limits, as well as, the LCSD recovery for nitrobenzene. 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 except HMX and 1,3-dinitrobenzene was not detected in the reextraction.

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

Sample Description: EB12-SA5C-120110 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5C-120110

LLI Sample # WW 6153697
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 15:45 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

EB-12 SDG#: DE026-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
HPLC Organics		SW-846 8315A	ug/l	ug/l	ug/l	ug/l	
04144	17b Formaldehyde by	8315A 50-00-0	10 U	10	50		1
GC Extractable TPH		SW-846 8015B modified	mg/l	mg/l	mg/l	mg/l	
10200	EFH (C12-C14)	n.a.	0.10 U	0.10	0.61		1
10200	EFH (C15-C20)	n.a.	0.10 U	0.10	0.61		1
10200	EFH (C21-C30)	n.a.	0.10 U	0.10	0.61		1
10200	EFH (C30 - C40)	n.a.	0.10 U	0.10	0.61		1
10200	EFH (C8-C11)	n.a.	0.10 U	0.10	0.61		1
10200	EFH (C8-C30)	n.a.	0.10 U	0.10	0.61		1
GC Miscellaneous		SW-846 8015B	ug/l	ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	200 U	200	1,000		1
06624	Isopropanol	67-63-0	200 U	200	1,000		1
06624	Methanol	67-56-1	200 U	200	1,000		1
GC Miscellaneous		SW-846 8015B modified	mg/l	mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	10 U	10	100		1
08278	Ethylene glycol	107-21-1	10 U	10	100		1
08278	Propylene glycol	57-55-6	10 U	10	100		1
Terphenyls		SW-846 8015B	mg/l	mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.084 U	0.084	0.26		1
10319	o-Terphenyl	84-15-1	0.084 U	0.084	0.26		1
10319	p-Terphenyl	92-94-4	0.084 U	0.084	0.26		1
Misc. Organics		SW-846 8315A modified	ug/l	ug/l	ug/l	ug/l	
10342	1,1-Dimethylhydrazine	57-14-7	0.25 U	0.25	0.50		1
10342	Hydrazine	302-01-2	0.050 U	0.050	0.10		1
10342	Methylhydrazine	60-34-4	0.25 U	0.25	0.50		1
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	mg/l	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
		SW-846 9012B	mg/l	mg/l	mg/l	mg/l	
08255	21b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
		SW-846 9040B	Std. Units	Std. Units	Std. Units	Std. Units	
00200	22b pH by 9040B	n.a.	5.5	0.010	0.010		1

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

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

Sample Description: EB12-SA5C-120110 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5C-120110

LLI Sample # WW 6153697
LLI Group # 1223465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2010 15:45 by PH

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

Submitted: 12/02/2010 09:15

Reported: 12/29/2010 16:53

EB-12 SDG#: DE026-09EB*

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
10962	19b NDMA by 1625C	EPA 1625C	1	10340WAC026	12/22/2010 10:22	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	10340WAC026	12/06/2010 14:05	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10341B20A	12/07/2010 23:53	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10341B20A	12/07/2010 23:53	Tyler O Griffin	1
10131	20b Energetics by 8330A	SW-846 8330A	1	103400034A	12/08/2010 02:41	Michele D Hamilton	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	103370022A	12/04/2010 15:57	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	103370022A	12/04/2010 08:40	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	103400034A	12/07/2010 05:30	Olivia Arosemena	1
10200	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103400004A	12/11/2010 10:34	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	103410001A	12/08/2010 16:24	Dustin A Underkoffler	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	103400029A	12/06/2010 15:04	Robert Brown	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	103370010A	12/07/2010 00:54	Heather E Williams	1
11202	EFH Extraction - Waters	SW-846 3510C	1	103400004A	12/06/2010 15:00	Timothy J Attenberger	1
10304	Terphenyls water prep	SW-846 3510C	1	103370010A	12/03/2010 15:40	Olivia I Santiago	1
10342	18b Hydrazine by 8315A	SW-846 8315A modified	1	103400001	12/07/2010 00:17	Meng Yu	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	10336196901A	12/03/2010 00:45	Ashley M Adams	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	10343117101A	12/09/2010 18:56	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	10343117101A	12/09/2010 15:45	Carolyn M Mastropietro	1
00200	22b pH by 9040B	SW-846 9040B	1	10336020002B	12/02/2010 21:10	Luz M Groff	1

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

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: B103361AA Sample number(s): 6153689, 6153691, 6153694-6153695									
Acetone	6.7 U	6.7	8.0	ug/kg	174	161	32-209	8	30
Benzene	0.10 U	0.10	4.0	ug/kg	98	99	80-120	1	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	89	91	79-120	2	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	99	97	79-124	1	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	93	92	78-120	1	30
Bromoform	0.40 U	0.40	4.0	ug/kg	94	89	70-120	6	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	79	82	32-162	3	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	123	115	46-153	7	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	92	97	72-120	5	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	92	97	75-120	5	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	87	92	75-120	6	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	100	103	69-122	2	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	93	94	80-120	1	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	81	85	37-154	5	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	102	101	43-146	1	30
Chloroform	0.12 U	0.12	4.0	ug/kg	98	99	80-120	1	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	89	87	54-132	2	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	90	93	78-120	3	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	90	94	79-120	4	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	94	100	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	91	83	58-120	9	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	93	91	77-120	2	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	93	90	80-120	4	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	97	94	80-120	3	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	92	93	79-120	0	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	89	92	78-120	3	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	90	93	79-120	3	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	72	75	20-120	5	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	95	99	80-120	3	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	99	97	71-129	2	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	100	104	73-123	5	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	97	99	80-120	3	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	96	103	79-120	7	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	94	95	80-120	1	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	92	91	80-120	1	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	97	100	72-123	4	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	96	100	77-120	4	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	88	89	80-120	1	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	88	87	77-120	1	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	93	96	80-120	3	30
Freon 113	0.11 U	0.11	4.0	ug/kg	102	107	61-126	5	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	89	93	78-120	4	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	90	94	57-120	4	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	81	76	45-155	7	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	95	97	76-120	2	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	92	96	75-120	5	30

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

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	95	94	74-121	2	30
4-Methyl-2-pentanol	0.39 U	0.39	8.0	ug/kg	74	67	61-134	10	30
Methylene Chloride	0.83 J	0.24	4.0	ug/kg	95	96	76-124	1	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	94	98	77-120	4	30
Styrene	0.10 U	0.10	4.0	ug/kg	93	93	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	94	95	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	88	85	71-123	4	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	96	98	77-120	1	30
Toluene	0.11 J	0.08	4.0	ug/kg	93	96	80-120	3	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	90	88	64-120	2	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	90	89	68-120	0	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	93	97	71-125	4	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	92	90	80-120	2	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	95	97	80-120	2	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	88	91	58-133	4	30
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	89	85	71-123	4	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	92	96	79-120	4	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	92	96	78-120	4	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	81	86	53-120	6	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	95	97	80-120	2	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	92	93	80-120	1	30
Batch number: E103351AB	Sample number(s): 6153693								
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	98		60-132		
Batch number: E103361AA	Sample number(s): 6153689, 6153691, 6153694-6153695								
1,4-Dioxane	5.0 U	5.0	15	ug/kg	95	101	70-130	6	30
Batch number: Y103422AA	Sample number(s): 6153693								
Acetone	6 U	6.	20	ug/l	117	129	49-234	10	30
Benzene	0.5 U	0.5	5	ug/l	96	105	79-120	10	30
Bromobenzene	1 U	1.	5	ug/l	103	114	80-120	11	30
Bromochloromethane	1 U	1.	5	ug/l	99	109	80-120	9	30
Bromodichloromethane	1 U	1.	5	ug/l	93	103	80-120	10	30
Bromoform	1 U	1.	5	ug/l	96	104	61-120	8	30
Bromomethane	1 U	1.	5	ug/l	89	98	44-120	10	30
2-Butanone	3 U	3.	10	ug/l	93	105	66-151	12	30
n-Butylbenzene	1 U	1.	5	ug/l	96	106	74-120	10	30
sec-Butylbenzene	1 U	1.	5	ug/l	102	114	78-120	11	30
tert-Butylbenzene	1 U	1.	5	ug/l	98	109	80-120	10	30
Carbon Tetrachloride	1 U	1.	5	ug/l	100	109	75-123	9	30
Chlorobenzene	0.8 U	0.8	5	ug/l	99	110	80-120	10	30
Chloroethane	1 U	1.	5	ug/l	90	98	49-129	8	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	109	121	56-129	10	30
Chloroform	0.8 U	0.8	5	ug/l	98	108	77-122	10	30
Chloromethane	1 U	1.	5	ug/l	92	102	60-129	10	30
2-Chlorotoluene	1 U	1.	5	ug/l	105	114	80-120	9	30
4-Chlorotoluene	1 U	1.	5	ug/l	98	108	80-120	9	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	120	112	38-136	6	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	114	126*	66-120	10	30
Dibromochloromethane	1 U	1.	5	ug/l	101	110	80-120	9	30
1,2-Dibromoethane	1 U	1.	5	ug/l	101	112	80-120	10	30
Dibromomethane	1 U	1.	5	ug/l	97	107	80-120	9	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	95	105	80-120	10	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	100	111	80-120	11	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	98	108	80-120	10	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	66	73	47-120	10	30
1,1-Dichloroethane	1 U	1.	5	ug/l	101	111	79-120	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.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

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	99	110	70-130	10	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	96	106	74-123	10	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	100	111	80-120	10	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	111	80-120	11	30
1,2-Dichloropropane	1 U	1.	5	ug/l	95	105	78-120	9	30
1,3-Dichloropropane	1 U	1.	5	ug/l	102	112	80-120	9	30
2,2-Dichloropropane	1 U	1.	5	ug/l	93	104	77-124	10	30
1,1-Dichloropropene	1 U	1.	5	ug/l	97	107	80-120	10	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	90	100	80-120	10	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	96	108	79-120	12	30
Ethylbenzene	0.8 U	0.8	5	ug/l	97	109	79-120	11	30
Freon 113	2 U	2.	10	ug/l	94	102	69-128	8	30
Freon 133a	2 U	2.	5	ug/l	106	103	77-120	3	30
Hexachlorobutadiene	2 U	2.	5	ug/l	88	101	58-120	14	30
2-Hexanone	3 U	3.	10	ug/l	99	111	65-136	11	30
Isopropylbenzene	1 U	1.	5	ug/l	97	108	77-120	10	30
p-Isopropyltoluene	1 U	1.	5	ug/l	101	111	80-120	9	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	109	76-120	12	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	94	107	70-121	12	30
Methylene Chloride	2 U	2.	5	ug/l	100	113	80-120	12	30
n-Propylbenzene	1 U	1.	5	ug/l	105	116	80-120	10	30
Styrene	1 U	1.	5	ug/l	98	107	80-120	8	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	102	114	80-120	11	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	105	117	71-120	10	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	98	109	80-121	10	30
Toluene	0.7 U	0.7	5	ug/l	100	109	79-120	9	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	96	108	65-120	12	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	93	107	67-120	13	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	85	96	75-127	12	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	100	111	80-120	10	30
Trichloroethene	1 U	1.	5	ug/l	95	105	80-120	10	30
Trichlorofluoromethane	2 U	2.	5	ug/l	79	85	64-129	8	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	108	119	80-120	10	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	105	115	74-120	9	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	102	113	75-120	10	30
Vinyl Chloride	1 U	1.	5	ug/l	83	93	65-125	11	30
m+p-Xylene	0.8 U	0.8	5	ug/l	95	105	80-120	10	30
o-Xylene	0.8 U	0.8	5	ug/l	96	106	80-120	10	30

Batch number: 10336SLB026

Sample number(s): 6153689-6153692, 6153694-6153696

Acenaphthene	0.67 U	0.67	1.7	ug/kg	85		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	87		55-120
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	92		74-120
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	86		58-129
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	94		63-143
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	84		44-138
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	98		66-137
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	99		65-131
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	105		84-132
Chrysene	0.33 U	0.33	1.7	ug/kg	94		79-120
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	82		62-142
Diethylphthalate	6.0 U	6.0	18	ug/kg	106		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	92		78-120
Fluorene	0.67 U	0.67	1.7	ug/kg	95		71-120
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	84		62-141

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

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	89		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	79		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	82		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	112		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	94		56-121		
Batch number: 10337SLD026 Sample number(s): 6153689-6153692, 6153694-6153696									
Aniline	170 U	170.	500	ug/kg	57		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	41		15-121		
Benzoic acid	170 U	170.	500	ug/kg	76		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	94		79-117		
Carbazole	17 U	17.	170	ug/kg	92		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	49		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	89		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	72		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	89		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	94		79-110		
Dibenzofuran	17 U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	80		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	53		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	91		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	90		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	105		70-130		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	72		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	55		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	89		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	96		77-111		
Hexachlorobenzene	17 U	17.	170	ug/kg	90		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	82		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	77		68-105		
Isophorone	17 U	17.	170	ug/kg	86		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	86		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	91		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	63		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	85		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	82		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	77		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	97		67-141		
Pentachlorophenol	170 U	170.	500	ug/kg	72		35-106		
Phenol	17 U	17.	170	ug/kg	87		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	94		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	98		78-111		
Batch number: 10340SLA026	Sample number(s): 6153689-6153692								
N-Nitrosodimethylamine	16.7 U	16.7	33.3	ng/kg	91		70-130		
Batch number: 10340WAC026	Sample number(s): 6153697								
N-Nitrosodimethylamine	0.500 U	0.500	1.00	ng/l	89	93	70-130	4	30
Batch number: 10336A34A	Sample number(s): 6153689, 6153691								
9a TPH by EPA 8015B Gas	0.2 U	0.2	1.0	mg/kg	76	85	67-119	11	30
Batch number: 10341B20A	Sample number(s): 6153693, 6153697								
TPH-GRO S.CA water C5-C12	20 U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 103380015A	Sample number(s): 6153689-6153692								
4-Amino-2,6-Dinitrotoluene	75 U	75.	150	ug/kg	103		80-120		
2-Amino-4,6-Dinitrotoluene	50 U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100 U	100.	300	ug/kg	65	88	54-134	30	30
2,4-Diamino-6-nitrotoluene	100 U	100.	300	ug/kg	65	88	54-134	30	30
1,3-Dinitrobenzene	50 U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50 U	50.	150	ug/kg	104		72-135		
2,6-Dinitrotoluene	50 U	50.	150	ug/kg	104		80-120		
HMX	130 U	130.	380	ug/kg	98		74-130		
Nitrobenzene	50 U	50.	150	ug/kg	105		80-120		
Nitroglycerin	1,000 U	1,000.	3,000	ug/kg	95		80-120		
2-Nitrotoluene	100 U	100.	150	ug/kg	107		78-128		
3-Nitrotoluene	130 U	130.	150	ug/kg	104		73-127		
4-Nitrotoluene	100 U	100.	150	ug/kg	103		80-120		
PETN	1,000 U	1,000.	3,000	ug/kg	105		80-120		
RDX	63 U	63.	150	ug/kg	100		75-131		
Tetryl	77 U	77.	150	ug/kg	109		70-168		
1,3,5-Trinitrobenzene	50 U	50.	150	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	50 U	50.	150	ug/kg	106		80-120		
Batch number: 103400034A	Sample number(s): 6153697								
4-Amino-2,6-Dinitrotoluene	0.30 U	0.30	0.60	ug/l	93	88	80-120	6	30
2-Amino-4,6-Dinitrotoluene	0.20 U	0.20	0.60	ug/l	91	86	80-120	6	30
2,6-Diamino-4-nitrotoluene	0.20 U	0.20	0.60	ug/l	63*	67*	75-125	5	30
2,4-Diamino-6-nitrotoluene	0.20 U	0.20	0.60	ug/l	63*	67*	75-125	5	30
1,3-Dinitrobenzene	0.44 J	0.20	0.60	ug/l	150*	84	72-117	56*	30
2,4-Dinitrotoluene	0.20 U	0.20	0.60	ug/l	87	83	80-120	5	30
2,6-Dinitrotoluene	0.20 U	0.20	0.60	ug/l	96	91	80-120	5	30
HMX	0.65 U	0.65	2.0	ug/l	88	82	65-125	7	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	0.20 U	0.20	0.60	ug/l	77	71*	75-121	8	30
Nitroglycerin	5.2 U	5.2	15	ug/l	92	88	80-120	5	30
2-Nitrotoluene	0.20 U	0.20	0.60	ug/l	87	83	74-120	5	30
3-Nitrotoluene	0.40 U	0.40	1.2	ug/l	85	80	69-107	6	30
4-Nitrotoluene	0.60 U	0.60	1.2	ug/l	85	80	80-120	6	30
PETN	6.0 U	6.0	18	ug/l	96	92	80-120	4	30
RDX	0.20 U	0.20	0.60	ug/l	80	76	70-125	5	30
Tetryl	0.40 U	0.40	0.60	ug/l	120	110	33-147	9	30
1,3,5-Trinitrobenzene	0.20 U	0.20	0.60	ug/l	98	92	53-129	6	30
2,4,6-Trinitrotoluene	0.20 U	0.20	0.60	ug/l	92	87	76-109	6	30
Batch number: 103370016A	Sample number(s): 6153689-6153692								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	96		80-126		
Batch number: 103370022A	Sample number(s): 6153697								
17b Formaldehyde by 8315A	10 U	10.	50	ug/l	90	90	69-130	0	30
Batch number: 103400026A	Sample number(s): 6153689-6153692, 6153694-6153696								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	54*	51*	75-125	6	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	95		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	106		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: 103370020A	Sample number(s): 6153689-6153692								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	93		66-113		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	97		66-113		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	99		66-113		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	99		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	75		66-113		
Batch number: 103400004A	Sample number(s): 6153697								
EFH (C12-C14)	0.10 U	0.10	0.60	mg/l					
EFH (C15-C20)	0.10 U	0.10	0.60	mg/l					
EFH (C21-C30)	0.10 U	0.10	0.60	mg/l					
EFH (C30 - C40)	0.10 U	0.10	0.60	mg/l					
EFH (C8-C11)	0.10 U	0.10	0.60	mg/l					
EFH (C8-C30)	0.10 U	0.10	0.60	mg/l	79	73	60-120	8	20
Batch number: 103400009A	Sample number(s): 6153689-6153692								
Ethanol	100 U	100.	500	ug/kg	98		75-112		
Isopropanol	100 U	100.	500	ug/kg	100		75-125		
Methanol	100 U	100.	500	ug/kg	107		75-134		
Batch number: 103400022A	Sample number(s): 6153689-6153692								
Diethylene glycol	5.0 U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	107		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Propylene glycol	5.0 U	5.0	13	mg/kg	100		75-125		
Batch number: 103400029A	Sample number(s): 6153697								
Diethylene glycol	10 U	10.	100	mg/l	105		78-126		
Ethylene glycol	10 U	10.	100	mg/l	115		80-124		
Propylene glycol	10 U	10.	100	mg/l	95		80-120		
Batch number: 103410001A	Sample number(s): 6153697								
Ethanol	200 U	200.	1,000	ug/l	100		66-132		
Isopropanol	200 U	200.	1,000	ug/l	104		75-125		
Methanol	200 U	200.	1,000	ug/l	104		77-137		
Batch number: 103370010A	Sample number(s): 6153697								
m-Terphenyl	0.080 U	0.080	0.25	mg/l	89	94	75-125	5	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	96	97	75-125	1	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	89	90	75-125	1	20
Batch number: 103370023A	Sample number(s): 6153689-6153692								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	98		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	101		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	95		75-125		
Batch number: 10336001	Sample number(s): 6153689-6153692								
1,1-Dimethylhydrazine	2.0 U	2.0	5.0	ng/g	97	100	70-130	2	30
Hydrazine	0.50 U	0.50	2.0	ng/g	95	92	70-130	4	30
Methylhydrazine	2.0 U	2.0	5.0	ng/g	104	91	70-130	13	30
Batch number: 10340001	Sample number(s): 6153697								
1,1-Dimethylhydrazine	0.25 U	0.25	0.50	ug/l	92	87	70-130	6	25
Hydrazine	0.050 U	0.050	0.10	ug/l	108	101	70-130	6	25
Methylhydrazine	0.25 U	0.25	0.50	ug/l	87	86	70-130	1	25
Batch number: 103371026002A	Sample number(s): 6153689-6153692, 6153694-6153696								
Antimony	0.0600 U	0.0600	0.200	mg/kg	114		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	108		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	105		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	111		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	102		82-118		
Lead	0.0104 U	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	112		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	106		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	99		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	109		78-122		
Batch number: 103371026002B	Sample number(s): 6153689-6153692, 6153694-6153696								
Selenium	0.0400 U	0.0400	0.400	mg/kg	109		79-122		
Batch number: 103371026002C	Sample number(s): 6153689-6153692, 6153694-6153696								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 103371026002D	Sample number(s): 6153689-6153692, 6153694-6153696								
Barium	0.108 U	0.108	0.400	mg/kg	105		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103375708002	Sample number(s): 6153689-6153692, 6153694-6153696								
Aluminum	5.03 U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	103		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	104		88-110		
Lithium	0.22 U	0.22	2.0	mg/kg	93		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	105		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	0.888 J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3 U	37.3	100	mg/kg	104		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.00 U	1.00	10.0	mg/kg	108		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	106		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	108		80-120		
Batch number: 103375711002	Sample number(s): 6153689-6153692, 6153694-6153696								
Mercury	0.0029 U	0.0029	0.0994	mg/kg	99		88-123		
Batch number: 103431026003A	Sample number(s): 6153689-6153692, 6153694-6153696								
Copper	0.0660 U	0.0660	0.400	mg/kg	105		80-120		
Batch number: 103435708004	Sample number(s): 6153689-6153692, 6153694-6153696								
Iron	4.71 U	4.71	20.0	mg/kg	100		61-110		
Batch number: 10336196901A	Sample number(s): 6153697								
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	102	102	90-110	0	20
Batch number: 10340102201A	Sample number(s): 6153689-6153691								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	95		90-110		
Batch number: 10340102201B	Sample number(s): 6153692								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	95		90-110		
Batch number: 10343117101A	Sample number(s): 6153697								
21b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	92		90-110		
Batch number: 10344344201A	Sample number(s): 6153689-6153692, 6153694-6153696								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	97		90-110		
Batch number: 10349243201A	Sample number(s): 6153689-6153692, 6153694-6153696								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10349349201A	Sample number(s): 6153689-6153692, 6153694-6153695								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	101		85-115		
Batch number: 10351351201A	Sample number(s): 6153696								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		
Batch number: 10336020002B	Sample number(s): 6153697								
22b pH by 9040B					100		99-101		
Batch number: 10336039401A	Sample number(s): 6153689-6153692, 6153694-6153696								
22a pH by 9045C					100		95-105		
Batch number: 10336182101A	Sample number(s): 6153689-6153692, 6153694-6153696								
Oxidation Reduction Potential					99		98-102		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10342162401B 28a Total Solids by 160.3	Sample number(s): 6153694-6153696				100		80-120		
Batch number: 10347162401A 28a Total Solids by 160.3	Sample number(s): 6153689-6153692				100		80-120		

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103361AA	Sample number(s): 6153689, 6153691, 6153694-6153695 UNSPK: P152647								
Acetone	170		15-210						
Benzene	102		55-143						
Bromobenzene	93		43-139						
Bromochloromethane	112		60-137						
Bromodichloromethane	96		53-136						
Bromoform	96		38-124						
Bromomethane	78		42-168						
2-Butanone	126		37-163						
n-Butylbenzene	98		30-146						
sec-Butylbenzene	100		33-157						
tert-Butylbenzene	95		41-152						
Carbon Tetrachloride	106		45-153						
Chlorobenzene	96		49-135						
Chloroethane	77		39-152						
2-Chloroethyl Vinyl Ether	111		32-139						
Chloroform	103		61-142						
Chloromethane	98		51-163						
2-Chlorotoluene	94		42-146						
4-Chlorotoluene	94		39-145						
1,2-Dibromo-3-chloropropane	93		30-139						
Dibromochloromethane	96		51-128						
1,2-Dibromoethane	98		54-129						
Dibromomethane	102		57-130						
1,2-Dichlorobenzene	92		36-133						
1,3-Dichlorobenzene	91		34-134						
1,4-Dichlorobenzene	91		35-136						
Dichlorodifluoromethane	80		26-151						
1,1-Dichloroethane	101		63-142						
1,2-Dichloroethane	103		68-131						
1,1-Dichloroethene	106		61-149						
cis-1,2-Dichloroethene	101		60-136						
trans-1,2-Dichloroethene	104		59-142						
1,2-Dichloropropane	97		62-135						
1,3-Dichloropropane	96		58-129						
2,2-Dichloropropane	102		53-147						
1,1-Dichloropropene	101		54-145						
cis-1,3-Dichloropropene	91		51-131						
trans-1,3-Dichloropropene	93		49-129						
Ethylbenzene	98		44-141						
Freon 113	111		56-156						

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Quality Control Summary

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Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

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
Hexachlorobutadiene	91		10-155						
2-Hexanone	83		32-160						
Isopropylbenzene	98		38-144						
p-Isopropyltoluene	98		29-152						
Methyl Tertiary Butyl Ether	100		55-129						
4-Methyl-2-pentanone	79		46-139						
Methylene Chloride	97		61-141						
n-Propylbenzene	100		39-157						
Styrene	95		35-134						
1,1,1,2-Tetrachloroethane	97		52-130						
1,1,2,2-Tetrachloroethane	96		40-152						
Tetrachloroethene	99		42-149						
Toluene	98		50-146						
1,2,3-Trichlorobenzene	79		10-140						
1,2,4-Trichlorobenzene	81		10-136						
1,1,1-Trichloroethane	107		64-142						
1,1,2-Trichloroethane	98		54-139						
Trichloroethene	100		53-144						
Trichlorofluoromethane	96		47-163						
1,2,3-Trichloropropane	97		45-154						
1,2,4-Trimethylbenzene	96		37-149						
1,3,5-Trimethylbenzene	97		38-150						
Vinyl Chloride	87		50-154						
m+p-Xylene	98		44-137						
o-Xylene	94		42-137						
Batch number: E103351AB	Sample number(s): 6153693 UNSPK: P151866								
1,4-Dioxane	100	119	50-150	8	30				
Batch number: 10336SLB026	Sample number(s): 6153689-6153692, 6153694-6153696 UNSPK: 6153689								
Acenaphthene	89	90	63-105	1	30				
Acenaphthylene	90	91	55-126	2	30				
Anthracene	96	95	46-136	1	30				
Benzo(a)anthracene	94	95	39-144	1	30				
Benzo(a)pyrene	90	91	34-156	1	30				
Benzo(b)fluoranthene	88	94	43-155	6	30				
Benzo(g,h,i)perylene	85	79	33-141	7	30				
Benzo(k)fluoranthene	92	91	42-144	2	30				
Butylbenzylphthalate	118	116	73-140	2	30				
Di-n-butylphthalate	129	112	78-160	14	30				
Chrysene	93	92	29-156	1	30				
Dibenz(a,h)anthracene	88	83	41-130	6	30				
Diethylphthalate	119	110	87-131	8	30				
Dimethylphthalate	95	98	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	123	250*	39-167	68*	30				
Fluoranthene	105	99	26-166	5	30				
Fluorene	95	93	45-121	1	30				
Indeno(1,2,3-cd)pyrene	90	83	21-143	7	30				
1-Methylnaphthalene	91	89	72-123	2	30				
2-Methylnaphthalene	82	80	28-121	2	30				
Naphthalene	87	84	61-102	3	30				
N-Nitrosodimethylamine	55	50	48-113	5	30				
Di-n-octylphthalate	112	118	40-192	5	30				

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Quality Control Summary

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Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

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
Phenanthrene	94	90	12-165	5	30				
Pyrene	93	92	15-153	2	30				
Batch number: 10337SLD026 Sample number(s): 6153689-6153692, 6153694-6153696 UNSPK: 6153689									
Aniline	42	64	14-114	42*	30				
Benidine	0*	24*	35-141	200*	30				
Benzoic acid	28	33	10-173	15	30				
Benzyl alcohol	88	92	55-123	5	30				
4-Bromophenyl-phenylether	90	95	67-129	5	30				
Carbazole	91	88	64-120	2	30				
4-Chloro-3-methylphenol	87	92	53-130	5	30				
4-Chloroaniline	50	62	23-95	22	30				
bis(2-Chloroethoxy)methane	89	92	54-117	4	30				
bis(2-Chloroethyl)ether	90	85	60-116	6	30				
bis(2-Chloroisopropyl)ether	86	86	55-142	0	30				
2-Chloronaphthalene	72	72	50-141	1	30				
2-Chlorophenol	90	88	73-121	2	30				
4-Chlorophenyl-phenylether	90	92	64-119	2	30				
Dibenzofuran	93	90	71-112	3	30				
1,2-Dichlorobenzene	82	84	66-108	3	30				
1,3-Dichlorobenzene	82	82	63-109	0	30				
1,4-Dichlorobenzene	84	81	53-113	3	30				
3,3'-Dichlorobenzidine	50	60	25-123	18	30				
2,4-Dichlorophenol	90	89	78-117	0	30				
2,4-Dimethylphenol	86	92	56-130	7	30				
3,5-Dimethylphenol	105	106	70-130	1	30				
4,6-Dinitro-2-methylphenol	53	54	10-148	3	30				
2,4-Dinitrophenol	23	24	20-143	8	30				
2,4-Dinitrotoluene	87	84	57-114	3	30				
2,6-Dinitrotoluene	92	89	69-123	3	30				
1,2-Diphenylhydrazine	93	96	71-129	3	30				
Hexachlorobenzene	86	89	61-111	3	30				
Hexachlorobutadiene	88	88	62-120	0	30				
Hexachlorocyclopentadiene	58	69	10-153	18	30				
Hexachloroethane	79	78	57-109	1	30				
Isophorone	87	89	51-118	2	30				
2-Methylphenol	91	90	47-142	2	30				
4-Methylphenol	91	93	55-126	2	30				
2-Nitroaniline	89	86	67-125	3	30				
3-Nitroaniline	83	82	59-122	2	30				
4-Nitroaniline	63	64	52-112	2	30				
Nitrobenzene	86	86	51-114	0	30				
2-Nitrophenol	81	81	74-115	1	30				
4-Nitrophenol	73	73	39-133	0	30				
N-Nitroso-di-n-propylamine	85	85	60-116	0	30				
N-Nitrosodiphenylamine	91	96	86-145	5	30				
Pentachlorophenol	64	64	17-149	1	30				
Phenol	88	89	58-126	1	30				
1,2,4-Trichlorobenzene	87	88	72-115	2	30				
2,4,5-Trichlorophenol	95	90	34-139	5	30				
2,4,6-Trichlorophenol	90	90	49-140	0	30				

Batch number: 10340SLA026

Sample number(s): 6153689-6153692 UNSPK: P154843

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Quality Control Summary

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Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

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
N-Nitrosodimethylamine	81	99	70-130	17	30				
Batch number: 10336A34A	Sample number(s): 6153689,6153691 UNSPK: P154843								
9a TPH by EPA 8015B Gas	69	70	39-118	4	30				
Batch number: 10341B20A	Sample number(s): 6153693,6153697 UNSPK: P153767								
TPH-GRO S.CA water C5-C12	97		63-154						
Batch number: 103380015A	Sample number(s): 6153689-6153692 UNSPK: P154843								
4-Amino-2,6-Dinitrotoluene	106	104	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	107	106	80-137	1	50				
1,3-Dinitrobenzene	114	103	38-166	10	50				
2,4-Dinitrotoluene	103	102	80-131	1	50				
2,6-Dinitrotoluene	106	105	80-127	1	50				
HMX	98	98	63-128	0	50				
Nitrobenzene	103	101	80-125	1	50				
Nitroglycerin	102	101	80-120	1	50				
2-Nitrotoluene	107	107	80-122	0	50				
3-Nitrotoluene	105	105	72-119	0	50				
4-Nitrotoluene	104	102	80-125	2	50				
PETN	109	108	80-121	1	50				
RDX	94	94	75-129	0	50				
Tetryl	111	106	55-174	4	50				
1,3,5-Trinitrobenzene	114	112	82-126	2	50				
2,4,6-Trinitrotoluene	105	103	82-130	2	50				
Batch number: 103370016A	Sample number(s): 6153689-6153692 UNSPK: 6153689								
17a Formaldehyde by 8315A	98	91	80-120	7	50				
Batch number: 103400026A	Sample number(s): 6153689-6153692,6153694-6153696 UNSPK: P154843								
PCB-1016	85	81	29-146	5	50				
PCB-1260	96	97	39-149	0	50				
Batch number: 103370020A	Sample number(s): 6153689-6153692 UNSPK: 6153689								
EFH (C12-C14)	95	98	49-123	2	20				
EFH (C15-C20)	1043	14 (2)	49-123	71*	20				
	(2)								
EFH (C21-C30)	462 (2)	74 (2)	49-123	45*	20				
EFH (C30 - C40)	277 (2)	194 (2)	49-123	10	20				
EFH (C8-C11)	68	68	49-123	0	20				
Batch number: 103400009A	Sample number(s): 6153689-6153692 UNSPK: P154843								
Ethanol	103	106	24-143	3	20				
Isopropanol	105	108	75-125	3	20				
Methanol	112	116	45-136	4	20				
Batch number: 103400022A	Sample number(s): 6153689-6153692 UNSPK: P154843								
Diethylene glycol	60	88	59-109	37*	20				
Ethylene glycol	94	94	63-107	1	20				
Propylene glycol	85	86	63-107	1	20				
Batch number: 103400029A	Sample number(s): 6153697 UNSPK: 6153697								
Diethylene glycol	100	110	83-130	10	20				

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Group Number: 1223465

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
Ethylene glycol	110	120	89-125	9	20				
Propylene glycol	100	100	91-128	0	20				
Batch number: 103410001A	Sample number(s): 6153697 UNSPK: P128364								
Ethanol	92	92	69-125	0	20				
Isopropanol	96	100	75-125	4	20				
Methanol	92	92	61-131	0	20				
Batch number: 103370023A	Sample number(s): 6153689-6153692 UNSPK: P151503								
m-Terphenyl	85	89	75-125	5	20				
o-Terphenyl	89	93	75-125	5	20				
p-Terphenyl	84	89	75-125	6	20				
Batch number: 10336001	Sample number(s): 6153689-6153692 UNSPK: 6151503								
1,1-Dimethylhydrazine	50	51	10-116	0	30				
Hydrazine	37	37	11-102	0	30				
Methylhydrazine	28	34	10-92	17	30				
Batch number: 10340001	Sample number(s): 6153697 UNSPK: 6155352								
1,1-Dimethylhydrazine	91	84	70-130	8	25				
Hydrazine	108	85	70-130	23	25				
Methylhydrazine	89	85	70-130	4	25				
Batch number: 103371026002A	Sample number(s): 6153689-6153692, 6153694-6153696 UNSPK: P150585 BKG: P150585								
Antimony	64*	65*	75-125	1	20	0.199 J	0.176 J	12 (1)	20
Arsenic	265*	128*	75-125	27*	20	6.50	7.02	8	20
Beryllium	131*	102	75-125	14	20	0.727	0.743	2	20
Cadmium	134*	132*	75-125	3	20	0.0360 U	0.0489 J	200* (1)	20
Chromium	165*	126*	75-125	10	20	24.1	26.0	7	20
Cobalt	109	101	75-125	8	20	4.15	4.64	11	20
Lead	265*	122	75-125	33*	20	7.08	7.73	9	20
Nickel	134*	112	75-125	10	20	10.4	11.1	6	20
Silver	116	114	75-125	3	20	0.0301 J	0.0318 J	5 (1)	20
Thallium	99	98	75-125	1	20	0.300	0.293	2 (1)	20
Vanadium	260 (2)	151 (2)	75-125	17	20	45.5	49.6	9	20
Zinc	177 (2)	139 (2)	75-125	6	20	53.8	58.3	8	20
Batch number: 103371026002B	Sample number(s): 6153689-6153692, 6153694-6153696 UNSPK: P150585 BKG: P150585								
Selenium	118	112	75-125	6	20	0.0861 J	0.0739 J	15 (1)	20
Batch number: 103371026002C	Sample number(s): 6153689-6153692, 6153694-6153696 UNSPK: P150585 BKG: P150585								
Molybdenum	121	115	75-125	7	20	0.333	0.381	13 (1)	20
Batch number: 103371026002D	Sample number(s): 6153689-6153692, 6153694-6153696 UNSPK: P150585 BKG: P150585								
Barium	438 (2)	360 (2)	75-125	5	20	117	132	12	20
Batch number: 103375708002	Sample number(s): 6153689-6153692, 6153694-6153696 UNSPK: 6153689 BKG: 6153689								
Aluminum	1148 (2)	-973 (2)	75-125	20	20	20,400	17,900	13	20
Boron	99	98	84-115	1	20	11.8	12.1	3 (1)	20
Calcium	130 (2)	49 (2)	75-125	11	20	2,420	2,180	10	20
Lithium	107	101	82-114	5	20	22.3	18.1	21*	20
Magnesium	111 (2)	-204	75-125	16	20	3,880	3,590	8	20

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Quality Control Summary

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Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC (2)	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Manganese	207 (2)	438 (2)	75-125	30*	20	220	270	20	20
Phosphorus	127*	136*	75-125	3	20	132	151	14	20
Potassium	168*	182*	75-125	3	20	2,080	2,240	7	20
Sodium	104	97	75-125	6	20	229	190	19 (1)	20
Strontium	102	100	75-115	2	20	24.0	23.2	4	20
Tin	98	99	80-110	1	20	2.23 J	2.35 J	5 (1)	20
Titanium	318 (2)	256 (2)	75-125	4	20	1,270	1,270	0	20
Zirconium	102	100	75-125	2	20	1.71 J	2.47 J	36* (1)	20
Batch number: 103375711002 Mercury	Sample number(s): 6153689-6153692,6153694-6153696 UNSPK: 6153689 BKG: 6153689 95 98 65-135 3 20 0.0027 U 0.0028 U 0 (1) 20								
Batch number: 103431026003A Copper	Sample number(s): 6153689-6153692,6153694-6153696 UNSPK: 6153689 BKG: 6153689 90 98 75-125 4 20 8.66 8.79 1 20								
Batch number: 103435708004 Iron	Sample number(s): 6153689-6153692,6153694-6153696 UNSPK: 6153689 BKG: 6153689 1681 1972 75-125 1 20 18,900 19,100 1 20 (2) (2)								
Batch number: 10340102201A 21a Cyanide by 9012B	Sample number(s): 6153689-6153691 UNSPK: P150587 BKG: P150587 91 75-125 0.18 U 0.18 U 0 (1) 20								
Batch number: 10340102201B 21a Cyanide by 9012B	Sample number(s): 6153692 UNSPK: 6153692 BKG: 6153692 94 75-125 0.18 U 0.17 U 0 (1) 20								
Batch number: 10343117101A 21b Cyanide by 9012B	Sample number(s): 6153697 UNSPK: P151713 BKG: P151713 99 25-148 0.056 0.054 3 20								
Batch number: 10344344201A 11a Anions by 300.0 - Fluoride 11a Anions by 300.0 - Nitrate	Sample number(s): 6153689-6153692,6153694-6153696 UNSPK: P154843 BKG: P154843 93 80-120 4.5 5.5 20 (1) 20 114 80-120 2.3 4.2 58* (1) 20								
Batch number: 10349243201A 3a Cr VI by EPA 7199	Sample number(s): 6153689-6153692,6153694-6153696 UNSPK: P154843 BKG: P154843 90 75-125 0.20 U 0.35 J 200* (1) 20								
Batch number: 10349349201A 7a Perchlorate EPA 314.0	Sample number(s): 6153689-6153692,6153694-6153695 UNSPK: P154843 BKG: P154843 86 86 80-120 0 20 9.9 J 9.0 U 200* (1) 15								
Batch number: 10351351201A 7a Perchlorate EPA 314.0	Sample number(s): 6153696 UNSPK: P157195 BKG: P157195 100 80-120 9.0 U 9.0 U 0 (1) 15								
Batch number: 10336020002B 22b pH by 9040B	Sample number(s): 6153697 BKG: P154495 7.0 7.0 0 1								
Batch number: 10336039401A 22a pH by 9045C	Sample number(s): 6153689-6153692,6153694-6153696 BKG: 6153689 7.01 6.99 0 1								
Batch number: 10336182101A Oxidation Reduction Potential	Sample number(s): 6153689-6153692,6153694-6153696 BKG: 6153689 445 445 0 6								
Batch number: 10342162401B 28a Total Solids by 160.3	Sample number(s): 6153694-6153696 BKG: P154848 13.0 12.0 8 20								

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

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: 10347162401A 28a Total Solids by 160.3									
Sample number(s): 6153689-6153692						BKG: P154843 21.9	30.1	32*	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: 1a Volatile Organics EPA 8260B

Batch number: B103361AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6153689	106	103	99	91
6153691	104	100	100	93
6153694	106	102	98	94
6153695	106	102	99	94
Blank	105	103	97	94
LCS	102	105	101	102
LCSD	102	104	101	99
MS	104	107	102	101

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

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

Batch number: E103351AB

	Toluene-d8
6153693	101
Blank	100
LCS	100
MS	102
MSD	101

Limits: 80-120

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

Batch number: E103361AA

	Toluene-d8
6153689	100
6153691	99
6153694	100
6153695	100
Blank	99
LCS	99
LCSD	99

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.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

Surrogate Quality Control

Analysis Name: 1b Volatile Organics EPA8260

Batch number: Y103422AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6153693	101	101	106	101
Blank	101	99	107	100
LCS	102	101	107	101
LCSD	103	105	108	102

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

Analysis Name: 4a Select SVOC EPA 8270SIM

Batch number: 10336SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6153689	74	75	67
6153690	84	75	80
6153691	83	75	80
6153692	86	58	81
6153694	81	76	81
6153695	84	79	82
6153696	84	80	84
Blank	78	81	82
LCS	79	81	80
MS	93	82	83
MSD	89	82	83

Limits: 40-130 45-130 45-135

Analysis Name: 5a Semivolatiles by EPA 8270C

Batch number: 10337SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6153689	82	81	75	74	85	80
6153690	88	88	75	78	87	86
6153691	82	82	70	74	79	81
6153692	81	79	74	75	83	80
6153694	85	86	73	79	85	86
6153695	81	80	69	73	78	80
6153696	87	85	74	75	86	84
Blank	85	85	79	80	88	82
LCS	89	89	89	82	96	85
MS	89	87	81	81	89	84
MSD	90	88	80	81	90	88

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

Analysis Name: 19a NDMA by 1625C

Batch number: 10340SLA026

N-Nitrosodimethylamine-d6

6153689	92
6153690	61
6153691	84
6153692	85
Blank	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.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

Surrogate Quality Control

LCS 86
MS 92
MSD 72

Limits: 50-150

Analysis Name: 19b NDMA by 1625C
Batch number: 10340WAC026
N-Nitrosodimethylamine-
d6

6153697 130
Blank 97
LCS 89
LCSD 101

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Gas
Batch number: 10336A34A
Trifluorotoluene-F

6153689 91
6153691 80
Blank 102
LCS 103
LCSD 108
MS 84
MSD 89

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10341B20A
Trifluorotoluene-F

6153693 85
6153697 86
Blank 87
LCS 108
LCSD 111
MS 107

Limits: 63-135

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103370016A
Butyraldehyde

6153689 94
6153690 105
6153691 105
6153692 101
Blank 96
LCS 100
MS 101
MSD 91

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

Surrogate Quality Control

Limits: 64-126

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 103370022A
Butyraldehyde

6153697	105
Blank	101
LCS	99
LCSD	102

Limits: 45-145

Analysis Name: 20a Energetics by 8330A
Batch number: 103380015A
2-Nitro-m-xylene

6153689	109
6153690	114
6153691	132
6153692	120
Blank	107
LCS	115
LCSD	111
MS	123
MSD	112

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103400026A
Tetrachloro-m-xylene Decachlorobiphenyl

6153689	88	89
6153690	95	88
6153691	103	100
6153692	96	87
6153694	97	102
6153695	92	85
6153696	86	85
Blank	97	87
LCS	106	99
LCSD	87	89
MS	99	91
MSD	99	93

Limits: 53-139 45-120

Analysis Name: 20b Energetics by 8330A
Batch number: 103400034A
2-Nitro-m-xylene

6153697	66
Blank	91
LCS	110
LCSD	74

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

Surrogate Quality Control

Limits: 50-134

Analysis Name: 26b Terphenyls by 8015B
Batch number: 103370010A
n-Triacontane-d62

6153697	92
Blank	92
LCS	187*
LCSD	98

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103370020A
Chlorobenzene Orthoterphenyl

6153689	71	85
6153690	74	80
6153691	71	77
6153692	72	77
Blank	85	89
LCS	84	88
MS	84	92
MSD	87	96

Limits: 37-125 47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103370023A
n-Triacontane-d62

6153689	90
6153690	91
6153691	87
6153692	90
Blank	95
LCS	94
MS	89
MSD	90

Limits: 50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 103400004A
Chlorobenzene Orthoterphenyl

6153697	74	83
Blank	80	91
LCS	89	102
LCSD	74	97

Limits: 28-152 52-131

Analysis Name: 25a Alcohols by 8015B
Batch number: 103400009A

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:53 PM

Group Number: 1223465

Surrogate Quality Control

Acetone

6153689	107
6153690	105
6153691	85
6153692	104
Blank	107
LCS	97
MS	91
MSD	103

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103400022A
Tetramethylene glycol

6153689	68
6153690	73
6153691	79
6153692	72
Blank	95
LCS	103
MS	99
MSD	90

Limits: 50-119

Analysis Name: 27b Glycols by 8015B
Batch number: 103400029A
Tetramethylene glycol

6153697	96
Blank	94
LCS	104
MS	95
MSD	105

Limits: 10-164

Analysis Name: 25b Alcohols by 8015B
Batch number: 103410001A
Acetone

6153697	100
Blank	105
LCS	112
MS	101
MSD	104

Limits: 54-147

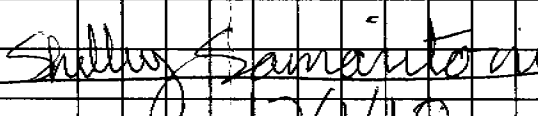
*- Outside of specification

** - 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 1223465 6153689-97

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						VOCs/ EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCS EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*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	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																									
SL-046-SA5C-SB-4.0-5.0	12.01.10	1018	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														
SL-046-SA5C-SB-4.0-5.0	12.01.10	1018	soil	none	1 - 16 oz. jar														X	X		X	X	X	X			X		
SL-046-SA5C-SB-4.0-5.0	12.01.10	1018	soil	none	3 - 4 oz. jars				X																	X	X			
SL-046-SA5C-SB-4.0-5.0	12.01.10	1018	soil	none	1 - 4 oz. amber jar																X									
SL-046-SA5C-SB-9.0-10.0	12.01.10	1023	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														
SL-046-SA5C-SB-9.0-10.0	12.01.10	1023	soil	none	1 - 16 oz. jar														X	X		X	X	X	X			X		
SL-046-SA5C-SB-9.0-10.0	12.01.10	1023	soil	none	3 - 4 oz. jars				X																	X	X			
SL-046-SA5C-SB-9.0-10.0	12.01.10	1023	soil	none	1 - 4 oz. amber jar																X									
SL-044-SA5C-SB-4.0-5.0	12.01.10	1146	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														
SL-044-SA5C-SB-4.0-5.0	12.01.10	1146	soil	none	1 - 16 oz. jar														X	X		X	X	X	X			X		
SL-044-SA5C-SB-4.0-5.0	12.01.10	1146	soil	none	3 - 4 oz. jars				X																	X	X			
SL-044-SA5C-SB-4.0-5.0	12.01.10	1146	soil	none	1 - 4 oz. amber jar																X									
 12/1/10																														
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time																				Laboratory:				
Shelly Samantoni		12.01.10 1630		Alebrana Resal		12/1/10 0915																				Lancaster Laboratories, Inc.				
Received by: (Signature)		Date/Time		Airbill No.		Tracking Number																				Cooler 1				
12/1/10 FedEx				00732992		869514319251																				1.4°C				

13613 1223465 6153689-97

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCS EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*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	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B	Other Instructions and Notes	
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																															
Samplers: (Signature) <i>Pamela Horton</i> <i>Shelly Samantoni</i>																															
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																										
SL-044-SA5C-SB-9.0-10.0	12.01.10	1150	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X															
SL-044-SA5C-SB-9.0-10.0	12.01.10	1150	soil	none	1 - 16 oz. jar															X	X		X	X	X	X			X		
SL-044-SA5C-SB-9.0-10.0	12.01.10	1150	soil	none	3 - 4 oz. jars					X																	X	X			
SL-044-SA5C-SB-9.0-10.0	12.01.10	1150	soil	none	1 - 4 oz. amber jar																X										
~~TB-113010~~ TB-120110	12.01.10	1330	water	HCl	4 - 40 ml vials	X	X	X																						Trip Blank	
SL-044-SA5C-SB-4.5	12.01.10	1143	soil	none	5 encore samplers	X	X	X																						TB was updated per SS. NLM 12/6/10	
SL-046-SA5C-SB-4.5	12.01.10	1015	soil	none	5 encore samplers	X	X	X																							
SL-045-SA5C-SB-4.5	12.01.10	1412	soil	none	4 encore samplers	X	X																								
SL-047-SA5C-SB-4.5	12.01.10	1525	soil	none	4 encore samplers	X	X																								
SL-045-SA5C-SB-8.0-9.0	12.01.10	1422	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X															
SL-045-SA5C-SB-4.0-5.0	12.01.10	1418	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X															
SL-047-SA5C-SB-4.0-5.0	12.01.10	1529	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X															
Shelly Samantoni 12/1/10																															
Relinquished by: (Signature) <i>Shelly Samantoni</i>		Date/Time 12.01.10 1630		Received for Laboratory by: (Signature) <i>Shelana Vash</i>		Date/Time 12/2/10 0915												Laboratory: Lancaster Laboratories, Inc.													
Received by: (Signature) <i>FedEx</i>		Date/Time		Airbill No. 00732992		Tracking Number 869514319240												Cooler 2 1.2 °C													

13013 1223465 6153689-97

CHAIN OF CUSTODY RECORD

CDM		SSFL AREA IV COLLOCATED SOIL SAMPLING																					Other Instructions and Notes									
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																																
Samplers: (Signature) <i>Parvula Horton</i> <i>Shelly Samantoni</i>																																
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-SMO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/60208&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B			
EB12-SA5C-120110	12.01.10	1545	water	acetate buffer	1-40 ml amber vial																	X										
EB12-SA5C-120110	12.01.10	1545	water	none	2 - 40 ml clear glass															X												
EB12-SA5C-120110	12.01.10	1545	water	none	2 - 40 ml clear glass																							X				
EB12-SA5C-120110	12.01.10	1545	water	HCl	3-40 ml vials				X																							
EB12-SA5C-120110	12.01.10	1545	water	HCl	2-40 ml vials																						X					
EB12-SA5C-120110	12.01.10	1545	water	HCl	2 - 1 liter amber					X																			X			
EB12-SA5C-120110	12.01.10	1545	water	none	3 - 1 liter amber																	X	X								plus 1 extra amber bottle	
EB12-SA5C-120110	12.01.10	1545	water	none	1-250 ml glass jar															X												
EB12-SA5C-120110	12.01.10	1545	water	NaOH	1-500 ml poly																			X								
EB12-SA5C-120110	12.01.10	1545	water	none	1-500 ml poly																				X							
						<i>Shelly Samantoni</i> 12/1/10																										
Relinquished by: (Signature) <i>Shelly Samantoni</i>						Date/Time 12.01.10 1630		Received for Laboratory by: (Signature) <i>Deborah Resel</i>		Date/Time 12/2/10 0915																Laboratory: Lancaster Laboratories, Inc.						
Received by: (Signature) <i>FedEx</i>						Date/Time		Airbill No. 00732992		Tracking Number 869514318440																Cooler 3 4.3°C						

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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 $\geq IDL$
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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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 29, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/03/2010

Group Number: 1223723

SDG: DE027

PO Number: 1203-004-007-AL

Release Number: Tracking #11667

State of Sample Origin: CA

Client Sample Description

SL-037-SA5C-SB-3.5-4.5 Soil
SL-037-SA5C-SB-3.5-4.5MS Soil
SL-037-SA5C-SB-3.5-4.5MSD Soil
SL-037-SA5C-SB-3.5-4.5DUP Soil
SL-039-SA5C-SB-4.0-5.0 Soil
SL-036-SA5C-SB-4.0-5.0 Soil
DUP10-SA5C-QC-120210 Soil
TB-120210 Water
SL-040-SA5C-SB-4.0-5.0 Soil
SL-040-SA5C-SB-9.0-10.0 Soil

Lancaster Labs (LLI)

6154843
6154844
6154845
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6154850
6154851
6154852

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

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

Attn: Todd Burgesser

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

Respectfully Submitted,



Chad A. Moline
Group Leader

Sample Description: SL-037-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154843
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7 U	7.7	9.2		1.01
06192	Benzene	71-43-2	0.12 U	0.12	4.6		1.01
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.6		1.01
06192	Bromochloromethane	74-97-5	0.38 U	0.38	4.6		1.01
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.6		1.01
06192	Bromoform	75-25-2	0.46 U	0.46	4.6		1.01
06192	Bromomethane	74-83-9	0.29 U	0.29	4.6		1.01
06192	2-Butanone	78-93-3	1.4 U	1.4	9.2		1.01
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	4.6		1.01
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.6		1.01
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.6		1.01
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.6		1.01
06192	Chlorobenzene	108-90-7	0.13 U	0.13	4.6		1.01
06192	Chloroethane	75-00-3	0.15 U	0.15	4.6		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34 U	0.34	4.6		1.01
06192	Chloroform	67-66-3	0.14 U	0.14	4.6		1.01
06192	Chloromethane	74-87-3	0.38 U	0.38	4.6		1.01
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.6		1.01
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.6		1.01
06192	Chlorotrifluoroethene	79-38-9	0.57 U	0.57	5.7		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80 U	0.80	4.6		1.01
06192	Dibromochloromethane	124-48-1	0.23 U	0.23	4.6		1.01
06192	1,2-Dibromoethane	106-93-4	0.20 U	0.20	4.6		1.01
06192	Dibromomethane	74-95-3	0.28 U	0.28	4.6		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	4.6		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.14 U	0.14	4.6		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.6		1.01
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	4.6		1.01
06192	1,1-Dichloroethane	75-34-3	0.12 U	0.12	4.6		1.01
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.6		1.01
06192	1,1-Dichloroethene	75-35-4	0.45 U	0.45	4.6		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.22 U	0.22	4.6		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.14 U	0.14	4.6		1.01
06192	1,2-Dichloropropane	78-87-5	0.20 U	0.20	4.6		1.01
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.6		1.01
06192	2,2-Dichloropropane	594-20-7	0.20 U	0.20	4.6		1.01
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.6		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.6		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	4.6		1.01
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.6		1.01
06192	Freon 113	76-13-1	0.13 U	0.13	4.6		1.01
06192	Freon 133a	75-88-7	0.57 U	0.57	5.7		1.01
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.6		1.01
06192	2-Hexanone	591-78-6	1.8 U	1.8	9.2		1.01
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.6		1.01
06192	p-Isopropyltoluene	99-87-6	0.13 U	0.13	4.6		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24 U	0.24	4.6		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.45 U	0.45	9.2		1.01
06192	Methylene Chloride	75-09-2	0.53 J	0.28	4.6		1.01
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.6		1.01

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154843
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.12 U	0.12	4.6		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13 U	0.13	4.6		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26 U	0.26	4.6		1.01
06192	Tetrachloroethene	127-18-4	0.23 U	0.23	4.6		1.01
06192	Toluene	108-88-3	0.09 U	0.09	4.6		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.6		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.21 U	0.21	4.6		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.23 U	0.23	4.6		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.31 U	0.31	4.6		1.01
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.6		1.01
06192	Trichlorofluoromethane	75-69-4	0.33 U	0.33	4.6		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.38 U	0.38	4.6		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.46 U	0.46	4.6		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.12 U	0.12	4.6		1.01
06192	Vinyl Chloride	75-01-4	0.23 U	0.23	4.6		1.01
06192	m+p-Xylene	179601-23-1	0.20 U	0.20	4.6		1.01
06192	o-Xylene	95-47-6	0.20 U	0.20	4.6		1.01
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	6.0 U	6.0	18		26.43
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	150	19.0	38.1		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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Sample Description: SL-037-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154843
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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
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	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	6.9	U 6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9		1

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

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Sample Description: SL-037-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154843
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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03735 SDG#: DE027-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
			ug/kg	ug/kg	ug/kg	ug/kg	
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	6.9 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
GC Volatiles TPH GRO SW-846 8015B mod							
			mg/kg	mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.1		23.85
Explosives SW-846 8330A							
			ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U 86	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U 57	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	57	U 57	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	57	U 57	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	57	U 57	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	430	1000000 0	1
10132	Nitrobenzene	98-95-3	57	U 57	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,400	1000000 0	1
10132	RDX	121-82-4	71	U 71	170	1000000 0	1
10132	Tetryl	479-45-8	87	U 87	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U 57	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U 57	170	1000000 0	1

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Sample Description: SL-037-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154843
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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03735 SDG#: DE027-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	680 U	680	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46 U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46 U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46 U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.6	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46 U	0.46	1.4		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	110	570		1
10501	Isopropanol	67-63-0	110 U	110	570		1
10501	Methanol	67-56-1	110 U	110	570		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7 U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7 U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7 U	5.7	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	4.0		1
Misc. Organics							
		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.3 U	2.3	5.7		1
10346	Hydrazine	302-01-2	0.57 U	0.57	2.3		1
10346	Methylhydrazine	60-34-4	2.3 U	2.3	5.7		1

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154843
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,400	5.57	22.2		1
07914	Boron	7440-42-8	11.5	0.986	5.54		1
01650	Calcium	7440-70-2	3,030	6.79	22.2		1
01654	Iron	7439-89-6	19,200	5.22	22.2		1
01656	Lithium	7439-93-2	27.3	0.24	2.2		1
01657	Magnesium	7439-95-4	4,050	2.82	11.1		1
06958	Manganese	7439-96-5	270	0.0864	0.554		1
10145	Phosphorus	7723-14-0	422	0.621	11.1		1
01662	Potassium	7440-09-7	2,000	19.9	55.4		1
01667	Sodium	7440-23-5	102 J	41.3	111		1
07968	Strontium	7440-24-6	13.4	0.0687	0.554		1
06969	Tin	7440-31-5	2.88 J	1.11	11.1		1
06970	Titanium	7440-32-6	1,480	2.11	5.54		5
10146	Zirconium	7440-67-7	3.81 J	0.931	5.54		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.220 J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	14.4	0.0672	0.448		2
06126	Barium	7440-39-3	122	0.121	0.448		2
06127	Beryllium	7440-41-7	0.525	0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0845 J	0.0403	0.112		2
06131	Chromium	7440-47-3	22.2	0.134	0.448		2
06132	Cobalt	7440-48-4	6.50	0.0224	0.112		2
06133	Copper	7440-50-8	11.4	0.0739	0.448		2
06135	Lead	7439-92-1	6.17	0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.231	0.0560	0.112		2
06139	Nickel	7440-02-0	15.6	0.112	0.448		2
06141	Selenium	7782-49-2	0.0937 J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0134 U	0.0134	0.112		2
06145	Thallium	7440-28-0	0.417	0.0336	0.112		2
06148	Vanadium	7440-62-2	43.6	0.0246	0.112		2
06149	Zinc	7440-66-6	93.0	0.627	3.36		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6	0.91	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.3 J	10.3	34.2		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154843
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	465	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.02	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	12.4	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-037-SA5C-SB-4.0.

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	B103401AA	12/06/2010 18:08	Laura M Krieger	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402AA	12/06/2010 15:24	Jason M Long	26.43
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:46	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033723168	12/03/2010 16:46	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033723168	12/03/2010 16:16	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 04:56	Timothy J Trees	1

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154843
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01BKG

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	10340SLD026	12/13/2010 22:36	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10341SLG026	12/09/2010 05:13	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10341SLG026	12/07/2010 23:10	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10340SLD026	12/07/2010 09:50	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34B	12/07/2010 13:28	Elizabeth J Marin	23.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:15	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 16:49	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400027A	12/08/2010 22:15	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 23:03	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400027A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103410019A	12/11/2010 19:41	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400009A	12/09/2010 06:38	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103400022A	12/06/2010 20:26	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410016A	12/11/2010 03:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103410019A	12/08/2010 09:45	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410016A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103400022A	12/06/2010 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400009A	12/08/2010 15:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10341002	12/07/2010 23:33	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103405708004	12/10/2010 02:51	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103405708004	12/08/2010 12:47	Eric L Eby	1

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154843
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103401026003D	12/09/2010 09:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103401026003C	12/09/2010 20:02	David K Beck	2
06139	Nickel	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103401026003B	12/09/2010 09:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103401026003A	12/09/2010 09:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103405711004	12/07/2010 09:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103405708004	12/06/2010 19:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103401026003	12/06/2010 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103405711004	12/06/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 00:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201A	12/12/2010 00:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 18:43	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 18:21	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202A	12/08/2010 18:10	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202A	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103A	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403A	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	4	10350162401A	12/16/2010 09:20	William C Schwebel	1

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154844
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	7.6	9.0		0.99
06192	Benzene	71-43-2	26	0.11	4.5		0.99
06192	Bromobenzene	108-86-1	22	0.15	4.5		0.99
06192	Bromochloromethane	74-97-5	24	0.37	4.5		0.99
06192	Bromodichloromethane	75-27-4	24	0.09	4.5		0.99
06192	Bromoform	75-25-2	22	0.45	4.5		0.99
06192	Bromomethane	74-83-9	18	0.28	4.5		0.99
06192	2-Butanone	78-93-3	140	1.4	9.0		0.99
06192	n-Butylbenzene	104-51-8	23	0.14	4.5		0.99
06192	sec-Butylbenzene	135-98-8	23	0.07	4.5		0.99
06192	tert-Butylbenzene	98-06-6	22	0.18	4.5		0.99
06192	Carbon Tetrachloride	56-23-5	27	0.16	4.5		0.99
06192	Chlorobenzene	108-90-7	24	0.12	4.5		0.99
06192	Chloroethane	75-00-3	19	0.15	4.5		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	22	0.34	4.5		0.99
06192	Chloroform	67-66-3	26	0.14	4.5		0.99
06192	Chloromethane	74-87-3	21	0.37	4.5		0.99
06192	2-Chlorotoluene	95-49-8	23	0.16	4.5		0.99
06192	4-Chlorotoluene	106-43-4	23	0.16	4.5		0.99
06192	Chlorotrifluoroethene	79-38-9	40	0.65	6.5		1.14
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.79	4.5		0.99
06192	Dibromochloromethane	124-48-1	23	0.23	4.5		0.99
06192	1,2-Dibromoethane	106-93-4	22	0.19	4.5		0.99
06192	Dibromomethane	74-95-3	24	0.27	4.5		0.99
06192	1,2-Dichlorobenzene	95-50-1	23	0.10	4.5		0.99
06192	1,3-Dichlorobenzene	541-73-1	23	0.14	4.5		0.99
06192	1,4-Dichlorobenzene	106-46-7	22	0.18	4.5		0.99
06192	Dichlorodifluoromethane	75-71-8	20	0.14	4.5		0.99
06192	1,1-Dichloroethane	75-34-3	25	0.11	4.5		0.99
06192	1,2-Dichloroethane	107-06-2	25	0.17	4.5		0.99
06192	1,1-Dichloroethene	75-35-4	27	0.44	4.5		0.99
06192	cis-1,2-Dichloroethene	156-59-2	26	0.21	4.5		0.99
06192	trans-1,2-Dichloroethene	156-60-5	26	0.14	4.5		0.99
06192	1,2-Dichloropropane	78-87-5	24	0.19	4.5		0.99
06192	1,3-Dichloropropane	142-28-9	22	0.09	4.5		0.99
06192	2,2-Dichloropropane	594-20-7	26	0.19	4.5		0.99
06192	1,1-Dichloropropene	563-58-6	26	0.15	4.5		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	23	0.18	4.5		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	22	0.19	4.5		0.99
06192	Ethylbenzene	100-41-4	24	0.07	4.5		0.99
06192	Freon 113	76-13-1	24	0.12	4.5		0.99
06192	Freon 133a	75-88-7	27	0.65	6.5		1.14
06192	Hexachlorobutadiene	87-68-3	21	0.16	4.5		0.99
06192	2-Hexanone	591-78-6	66	1.8	9.0		0.99
06192	Isopropylbenzene	98-82-8	24	0.07	4.5		0.99
06192	p-Isopropyltoluene	99-87-6	23	0.12	4.5		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	21	0.24	4.5		0.99
06192	4-Methyl-2-pentanone	108-10-1	75	0.44	9.0		0.99
06192	Methylene Chloride	75-09-2	25	0.27	4.5		0.99
06192	n-Propylbenzene	103-65-1	24	0.08	4.5		0.99

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154844
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	24	0.11	4.5		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	24	0.12	4.5		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	20	0.26	4.5		0.99
06192	Tetrachloroethene	127-18-4	27	0.23	4.5		0.99
06192	Toluene	108-88-3	24	0.09	4.5		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	21	0.16	4.5		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	21	0.20	4.5		0.99
06192	1,1,1-Trichloroethane	71-55-6	26	0.23	4.5		0.99
06192	1,1,2-Trichloroethane	79-00-5	22	0.30	4.5		0.99
06192	Trichloroethene	79-01-6	25	0.17	4.5		0.99
06192	Trichlorofluoromethane	75-69-4	23	0.33	4.5		0.99
06192	1,2,3-Trichloropropane	96-18-4	20	0.37	4.5		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	23	0.45	4.5		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	23	0.11	4.5		0.99
06192	Vinyl Chloride	75-01-4	21	0.23	4.5		0.99
06192	m+p-Xylene	179601-23-1	49	0.19	4.5		0.99
06192	o-Xylene	95-47-6	23	0.19	4.5		0.99
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120	5.6	17		24.51
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	920	19.0	38.1		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800	19	190		1
04688	Acenaphthylene	208-96-8	1,900	19	190		1
04688	Aniline	62-53-3	1,400	190	570		1
04688	Anthracene	120-12-7	1,900	19	190		1
04688	Benidine	92-87-5	3,500	J 1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,700	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,900	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	1,900	19	190		1
04688	Benzoic acid	65-85-0	1,300	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	1,800	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800	19	190		1
04688	Carbazole	86-74-8	1,800	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	38	190		1
04688	4-Chloroaniline	106-47-8	1,300	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,900	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,500	19	190		1
04688	2-Chlorophenol	95-57-8	1,900	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	38	190		1

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Sample Description: SL-037-SA5C-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154844
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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	1,900	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,700	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000	38	190		1
04688	Dimethylphthalate	131-11-3	1,900	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300	190	570		1
04688	2,4-Dinitrophenol	51-28-5	1,400	J 760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	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	1,800	19	190		1
04688	Hexachlorobenzene	118-74-1	1,900	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,800	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,300	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	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,900	38	190		1
04688	4-Methylphenol	106-44-5	1,900	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	1,800	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	38	190		1
04688	4-Nitroaniline	100-01-6	1,400	76	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,500	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	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	2,000	19	190		1
04688	Pentachlorophenol	87-86-5	1,500	190	570		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,900	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154844
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

CDM Federal Programs Corp.
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Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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	1,900	38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.76	1.9		1
10138	Acenaphthylene	208-96-8	36	0.38	1.9		1
10138	Anthracene	120-12-7	37	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	38	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	35	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	38	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	31	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	35	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	45	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	41	6.9	21		1
10138	Chrysene	218-01-9	37	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	34	0.76	1.9		1
10138	Diethylphthalate	84-66-2	39	6.9	21		1
10138	Dimethylphthalate	131-11-3	38	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46	6.9	21		1
10138	Fluoranthene	206-44-0	38	0.76	1.9		1
10138	Fluorene	86-73-7	37	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	36	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	33	0.76	1.9		1
10138	Naphthalene	91-20-3	35	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	35	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	44	6.9	21		1
10138	Phenanthrene	85-01-8	35	0.76	1.9		1
10138	Pyrene	129-00-0	36	0.76	1.9		1
GC Volatiles	TPH GRO	SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
	mod						
05551	9a TPH by EPA 8015B Gas	n.a.	9.6	0.3	1.3		27.96
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	3,000	86	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	3,100	57	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	3,300	57	170	1000000 0	1

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Sample Description: SL-037-SA5C-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154844
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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03735 SDG#: DE027-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives		SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	2,900	57	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	3,000	57	170	1000000 0	1
10132	HMX	2691-41-0	2,800	140	430	1000000 0	1
10132	Nitrobenzene	98-95-3	2,900	57	170	1000000 0	1
10132	Nitroglycerin	55-63-0	70,000	1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	3,000	110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	3,000	140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	3,000	110	170	1000000 0	1
10132	PETN	78-11-5	75,000	1,100	3,400	1000000 0	1
10132	RDX	121-82-4	2,700	71	170	1000000 0	1
10132	Tetryl	479-45-8	3,200	87	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,300	57	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	3,000	57	170	1000000 0	1
HPLC Organics		SW-846 8315A	ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,600	680	1,700		1
Pesticides/PCBs		SW-846 8082	ug/kg	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	18	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.							
GC Extractable TPH		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.74 J	0.46	1.4		1

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Sample Description: SL-037-SA5C-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154844
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GC Extractable TPH							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C15-C20)	n.a.	1.3 J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.4	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.8	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.53 J	0.46	1.4		1
GC Miscellaneous							
	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,900	110	570		1
10501	Isopropanol	67-63-0	3,000	110	570		1
10501	Methanol	67-56-1	3,200	110	570		1
GC Miscellaneous							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	140	5.7	14		1
08283	Ethylene glycol	107-21-1	210	5.7	14		1
08283	Propylene glycol	57-55-6	200	5.7	14		1
Terphenyls							
	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 J	1.6	4.0		1
10318	o-Terphenyl	84-15-1	1.7 J	1.6	4.0		1
10318	p-Terphenyl	92-94-4	1.9 J	1.7	4.0		1
Misc. Organics							
	SW-846 8315A modified		ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	490	2.3	5.7		1
10346	Hydrazine	302-01-2	31	0.57	2.3		1
10346	Methylhydrazine	60-34-4	210	2.3	5.7		1
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,100	5.57	22.2		1
07914	Boron	7440-42-8	226	0.986	5.54		1
01650	Calcium	7440-70-2	3,820	6.79	22.2		1
01654	Iron	7439-89-6	19,300	5.22	22.2		1
01656	Lithium	7439-93-2	134	0.24	2.2		1
01657	Magnesium	7439-95-4	4,420	2.82	11.1		1
06958	Manganese	7439-96-5	339	0.0864	0.554		1
10145	Phosphorus	7723-14-0	538	0.621	11.1		1
01662	Potassium	7440-09-7	3,310	19.9	55.4		1
01667	Sodium	7440-23-5	1,190	41.3	111		1
07968	Strontium	7440-24-6	121	0.0687	0.554		1
06969	Tin	7440-31-5	436	1.11	11.1		1
06970	Titanium	7440-32-6	1,830	2.11	5.54		5
10146	Zirconium	7440-67-7	117	0.931	5.54		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.917	0.0678	0.226		2

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SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154844
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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03735 SDG#: DE027-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals			SW-846 6020	mg/kg	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	11.3	0.0678	0.452		2
06126	Barium	7440-39-3	102	0.122	0.452		2
06127	Beryllium	7440-41-7	1.38	0.0181	0.113		2
06128	Cadmium	7440-43-9	1.53	0.0407	0.113		2
06131	Chromium	7440-47-3	29.8	0.136	0.452		2
06132	Cobalt	7440-48-4	60.6	0.0226	0.113		2
06133	Copper	7440-50-8	19.8	0.0746	0.452		2
06135	Lead	7439-92-1	8.72	0.0118	0.226		2
06138	Molybdenum	7439-98-7	13.0	0.0565	0.113		2
06139	Nickel	7440-02-0	24.2	0.113	0.452		2
06141	Selenium	7782-49-2	2.64	0.0452	0.452		2
06142	Silver	7440-22-4	13.2	0.0136	0.113		2
06145	Thallium	7440-28-0	0.851	0.0339	0.113		2
06148	Vanadium	7440-62-2	47.9	0.0249	0.113		2
06149	Zinc	7440-66-6	83.6	0.633	3.39		2
			SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg
00159	Mercury	7439-97-6	0.187	0.0032	0.113		1
Wet Chemistry			EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg
07332	11a Anions by 300.0 - Fluoride	16984-48-8	15.7	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	15.7	0.91	1.7		1
			EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg
10147	7a Perchlorate EPA 314.0	14797-73-0	498	10.3	34.2		1
			SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg
05892	3a Cr VI by EPA 7199	18540-29-9	41.2	1.1	5.7		5
			SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg
05895	21a Cyanide by 9012B	57-12-5	5.8	0.21	0.57		1
Wet Chemistry			EPA 160.3 modified	%	%	%	%
11625	28a Total Solids by 160.3	n.a.	12.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-037-SA5C-SB-4.0.

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154844
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MS

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	B103401AA	12/06/2010 18:31	Laura M Krieger	0.99
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103401AA	12/06/2010 19:16	Laura M Krieger	1.14
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402AA	12/06/2010 15:44	Jason M Long	24.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:20	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:46	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033723168	12/03/2010 16:46	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033723168	12/03/2010 16:20	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 05:13	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10340SLD026	12/13/2010 23:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10341SLG026	12/09/2010 05:46	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10341SLG026	12/07/2010 23:10	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10340SLD026	12/07/2010 09:50	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34B	12/07/2010 14:05	Elizabeth J Marin	27.96
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:20	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 17:31	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400027A	12/08/2010 22:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 23:21	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400027A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103410019A	12/11/2010 20:06	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400009A	12/09/2010 06:53	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103400022A	12/06/2010 20:42	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410016A	12/11/2010 04:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103410019A	12/08/2010 09:45	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410016A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103400022A	12/06/2010 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400009A	12/08/2010 15:00	Dustin A Underkoffler	1

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Sample Description: SL-037-SA5C-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154844
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10341002	12/08/2010 01:15	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103405708004	12/10/2010 03:02	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103405708004	12/08/2010 12:58	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103401026003D	12/09/2010 09:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103401026003C	12/09/2010 09:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103401026003B	12/09/2010 09:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103401026003A	12/09/2010 09:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103405711004	12/07/2010 09:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103405708004	12/06/2010 19:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103401026003	12/06/2010 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103405711004	12/06/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 01:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201A	12/12/2010 01:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 19:55	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10349243201A	12/18/2010 18:53	Ashley M Adams	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202A	12/08/2010 18:12	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1

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Analysis Report

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

Page 10 of 10

Sample Description: SL-037-SA5C-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154844
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202A	12/08/2010 10:20	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	4	10350162401A	12/16/2010 09:20	William C Schwebel	1

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

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



Analysis Report

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

Page 1 of 9

Sample Description: SL-037-SA5C-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154845
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	7.5	9.0		0.99
06192	Benzene	71-43-2	25	0.11	4.5		0.99
06192	Bromobenzene	108-86-1	22	0.15	4.5		0.99
06192	Bromochloromethane	74-97-5	24	0.37	4.5		0.99
06192	Bromodichloromethane	75-27-4	23	0.09	4.5		0.99
06192	Bromoform	75-25-2	21	0.45	4.5		0.99
06192	Bromomethane	74-83-9	19	0.28	4.5		0.99
06192	2-Butanone	78-93-3	140	1.4	9.0		0.99
06192	n-Butylbenzene	104-51-8	22	0.14	4.5		0.99
06192	sec-Butylbenzene	135-98-8	22	0.07	4.5		0.99
06192	tert-Butylbenzene	98-06-6	22	0.18	4.5		0.99
06192	Carbon Tetrachloride	56-23-5	25	0.16	4.5		0.99
06192	Chlorobenzene	108-90-7	23	0.12	4.5		0.99
06192	Chloroethane	75-00-3	19	0.15	4.5		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	23	0.34	4.5		0.99
06192	Chloroform	67-66-3	24	0.14	4.5		0.99
06192	Chloromethane	74-87-3	23	0.37	4.5		0.99
06192	2-Chlorotoluene	95-49-8	22	0.16	4.5		0.99
06192	4-Chlorotoluene	106-43-4	22	0.16	4.5		0.99
06192	Chlorotrifluoroethene	79-38-9	34	0.54	5.4		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.79	4.5		0.99
06192	Dibromochloromethane	124-48-1	22	0.23	4.5		0.99
06192	1,2-Dibromoethane	106-93-4	21	0.19	4.5		0.99
06192	Dibromomethane	74-95-3	23	0.27	4.5		0.99
06192	1,2-Dichlorobenzene	95-50-1	22	0.10	4.5		0.99
06192	1,3-Dichlorobenzene	541-73-1	22	0.14	4.5		0.99
06192	1,4-Dichlorobenzene	106-46-7	22	0.18	4.5		0.99
06192	Dichlorodifluoromethane	75-71-8	19	0.14	4.5		0.99
06192	1,1-Dichloroethane	75-34-3	25	0.11	4.5		0.99
06192	1,2-Dichloroethane	107-06-2	24	0.17	4.5		0.99
06192	1,1-Dichloroethene	75-35-4	25	0.44	4.5		0.99
06192	cis-1,2-Dichloroethene	156-59-2	25	0.21	4.5		0.99
06192	trans-1,2-Dichloroethene	156-60-5	25	0.14	4.5		0.99
06192	1,2-Dichloropropane	78-87-5	24	0.19	4.5		0.99
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.5		0.99
06192	2,2-Dichloropropane	594-20-7	25	0.19	4.5		0.99
06192	1,1-Dichloropropene	563-58-6	25	0.15	4.5		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	22	0.18	4.5		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	21	0.19	4.5		0.99
06192	Ethylbenzene	100-41-4	23	0.07	4.5		0.99
06192	Freon 113	76-13-1	25	0.12	4.5		0.99
06192	Freon 133a	75-88-7	23	0.54	5.4		0.95
06192	Hexachlorobutadiene	87-68-3	21	0.16	4.5		0.99
06192	2-Hexanone	591-78-6	69	1.8	9.0		0.99
06192	Isopropylbenzene	98-82-8	23	0.07	4.5		0.99
06192	p-Isopropyltoluene	99-87-6	22	0.12	4.5		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	23	0.24	4.5		0.99
06192	4-Methyl-2-pentanone	108-10-1	79	0.44	9.0		0.99
06192	Methylene Chloride	75-09-2	25	0.27	4.5		0.99
06192	n-Propylbenzene	103-65-1	22	0.08	4.5		0.99

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Sample Description: SL-037-SA5C-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154845
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	23	0.11	4.5		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	23	0.12	4.5		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	19	0.26	4.5		0.99
06192	Tetrachloroethene	127-18-4	25	0.23	4.5		0.99
06192	Toluene	108-88-3	23	0.09	4.5		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	21	0.16	4.5		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	21	0.20	4.5		0.99
06192	1,1,1-Trichloroethane	71-55-6	25	0.23	4.5		0.99
06192	1,1,2-Trichloroethane	79-00-5	22	0.30	4.5		0.99
06192	Trichloroethene	79-01-6	25	0.17	4.5		0.99
06192	Trichlorofluoromethane	75-69-4	22	0.33	4.5		0.99
06192	1,2,3-Trichloropropane	96-18-4	20	0.37	4.5		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	22	0.45	4.5		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	22	0.11	4.5		0.99
06192	Vinyl Chloride	75-01-4	21	0.23	4.5		0.99
06192	m+p-Xylene	179601-23-1	46	0.19	4.5		0.99
06192	o-Xylene	95-47-6	22	0.19	4.5		0.99
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	130	5.9	18		25.83
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	1,090	19.0	38.1		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900	19	190		1
04688	Acenaphthylene	208-96-8	2,000	19	190		1
04688	Aniline	62-53-3	1,500	190	570		1
04688	Anthracene	120-12-7	1,800	19	190		1
04688	Benzidine	92-87-5	4,500	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,900	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	2,000	19	190		1
04688	Benzoic acid	65-85-0	1,400	190	570		1
04688	Benzyl alcohol	100-51-6	1,900	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800	19	190		1
04688	Carbazole	86-74-8	1,800	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	38	190		1
04688	4-Chloroaniline	106-47-8	1,400	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,400	19	190		1
04688	2-Chlorophenol	95-57-8	1,900	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	38	190		1

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Sample Description: SL-037-SA5C-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154845
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,900	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	19	190		1
04688	Dibenzofuran	132-64-9	1,900	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
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190		1
04688	3,5-Dimethylphenol	108-68-9	2,100	38	190		1
04688	Dimethylphthalate	131-11-3	1,900	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300	190	570		1
04688	2,4-Dinitrophenol	51-28-5	1,800	J 760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	19	380		1
04688	Fluoranthene	206-44-0	1,800	19	190		1
04688	Fluorene	86-73-7	1,900	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,800	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,100	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	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,800	38	190		1
04688	4-Methylphenol	106-44-5	1,900	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	1,800	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	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,500	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	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	2,000	19	190		1
04688	Pentachlorophenol	87-86-5	1,400	190	570		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1

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Sample Description: SL-037-SA5C-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154845
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Pyrene	129-00-0	2,000	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.76	1.9		1
10138	Acenaphthylene	208-96-8	34	0.38	1.9		1
10138	Anthracene	120-12-7	35	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	33	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	36	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	33	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	35	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	38	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	43	6.9	21		1
10138	Chrysene	218-01-9	36	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	34	0.76	1.9		1
10138	Diethylphthalate	84-66-2	37	6.9	21		1
10138	Dimethylphthalate	131-11-3	37	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40	6.9	21		1
10138	Fluoranthene	206-44-0	37	0.76	1.9		1
10138	Fluorene	86-73-7	36	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	33	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	31	0.76	1.9		1
10138	Naphthalene	91-20-3	32	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	33	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	39	6.9	21		1
10138	Phenanthrene	85-01-8	35	0.76	1.9		1
10138	Pyrene	129-00-0	32	0.76	1.9		1
GC Volatiles	TPH GRO	SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
	mod						
05551	9a TPH by EPA 8015B Gas	n.a.	9.2	0.2	1.2		26.15
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	3,000	86	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	3,000	57	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	2,900	57	170	1000000 0	1

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Sample Description: SL-037-SA5C-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154845
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives		SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	2,900	57	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	3,000	57	170	1000000 0	1
10132	HMX	2691-41-0	2,800	140	430	1000000 0	1
10132	Nitrobenzene	98-95-3	2,900	57	170	1000000 0	1
10132	Nitroglycerin	55-63-0	69,000	1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	3,000	110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	3,000	140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	2,900	110	170	1000000 0	1
10132	PETN	78-11-5	74,000	1,100	3,400	1000000 0	1
10132	RDX	121-82-4	2,700	71	170	1000000 0	1
10132	Tetryl	479-45-8	3,000	87	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,200	57	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,900	57	170	1000000 0	1
HPLC Organics		SW-846 8315A	ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,500	680	1,700		1
Pesticides/PCBs		SW-846 8082	ug/kg	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	15	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	18	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.							
GC Extractable TPH		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.79 J	0.46	1.4		1

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Sample Description: SL-037-SA5C-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154845
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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03735 SDG#: DE027-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C15-C20)	n.a.	1.4	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.5	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.7	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.65 J	0.46	1.4		1
GC Miscellaneous							
	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	3,000	110	570		1
10501	Isopropanol	67-63-0	3,100	110	570		1
10501	Methanol	67-56-1	3,300	110	570		1
GC Miscellaneous							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	200	5.7	14		1
08283	Ethylene glycol	107-21-1	210	5.7	14		1
08283	Propylene glycol	57-55-6	200	5.7	14		1
Terphenyls							
	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.9 J	1.7	4.0		1
10318	o-Terphenyl	84-15-1	2.0 J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.9 J	1.7	4.0		1
Misc. Organics							
	SW-846 8315A modified		ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	500	2.3	5.7		1
10346	Hydrazine	302-01-2	34	0.57	2.3		1
10346	Methylhydrazine	60-34-4	220	2.3	5.7		1
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,100	5.52	22.0		1
07914	Boron	7440-42-8	223	0.977	5.49		1
01650	Calcium	7440-70-2	3,530	6.73	22.0		1
01654	Iron	7439-89-6	19,700	5.17	22.0		1
01656	Lithium	7439-93-2	128	0.24	2.2		1
01657	Magnesium	7439-95-4	4,270	2.79	11.0		1
06958	Manganese	7439-96-5	322	0.0856	0.549		1
10145	Phosphorus	7723-14-0	2,910	3.07	54.9		5
01662	Potassium	7440-09-7	3,190	19.8	54.9		1
01667	Sodium	7440-23-5	1,140	40.9	110		1
07968	Strontium	7440-24-6	121	0.0681	0.549		1
06969	Tin	7440-31-5	426	1.10	11.0		1
06970	Titanium	7440-32-6	1,800	2.09	5.49		5
10146	Zirconium	7440-67-7	111	0.922	5.49		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.934	0.0678	0.226		2

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Sample Description: SL-037-SA5C-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154845
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals			SW-846 6020	mg/kg	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	13.8	0.0678	0.452		2
06126	Barium	7440-39-3	115	0.122	0.452		2
06127	Beryllium	7440-41-7	1.43	0.0181	0.113		2
06128	Cadmium	7440-43-9	1.43	0.0407	0.113		2
06131	Chromium	7440-47-3	31.3	0.136	0.452		2
06132	Cobalt	7440-48-4	61.7	0.0226	0.113		2
06133	Copper	7440-50-8	21.1	0.0746	0.452		2
06135	Lead	7439-92-1	9.02	0.0118	0.226		2
06138	Molybdenum	7439-98-7	14.1	0.0565	0.113		2
06139	Nickel	7440-02-0	25.5	0.113	0.452		2
06141	Selenium	7782-49-2	2.71	0.0452	0.452		2
06142	Silver	7440-22-4	14.6	0.0136	0.113		2
06145	Thallium	7440-28-0	0.778	0.0339	0.113		2
06148	Vanadium	7440-62-2	49.8	0.0249	0.113		2
06149	Zinc	7440-66-6	86.8	0.633	3.39		2
			SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg
00159	Mercury	7439-97-6	0.173	0.0032	0.111		1
Wet Chemistry			EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg
10147	7a Perchlorate EPA 314.0	14797-73-0	498	10.3	34.2		1
Wet Chemistry			EPA 160.3 modified	%	%	%	%
11625	28a Total Solids by 160.3	n.a.	12.4	0.50	0.50		1
11626	28a Total Solids by 160.3	n.a.	13.1	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
The volatile analysis was performed on soil from SL-037-SA5C-SB-4.0.

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	B103401AA	12/06/2010 18:53	Laura M Krieger	0.99

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Sample Description: SL-037-SA5C-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154845
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MSD

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	B103401AA	12/06/2010 19:38	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402AA	12/06/2010 16:04	Jason M Long	25.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:46	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033723168	12/03/2010 16:46	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033723168	12/03/2010 16:25	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 05:31	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10340SLD026	12/13/2010 23:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10341SLG026	12/09/2010 12:25	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10341SLG026	12/07/2010 23:10	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10340SLD026	12/07/2010 09:50	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34B	12/07/2010 14:41	Elizabeth J Marin	26.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:24	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 18:13	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400027A	12/08/2010 22:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 23:40	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400027A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103410019A	12/11/2010 20:31	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400009A	12/09/2010 07:08	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103400022A	12/06/2010 20:58	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410016A	12/11/2010 05:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103410019A	12/08/2010 09:45	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410016A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103400022A	12/06/2010 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400009A	12/08/2010 15:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10341002	12/08/2010 01:35	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154845
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	2	103405708004	12/12/2010 17:59	Eric L Eby	5
01662	Potassium	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103405708004	12/10/2010 03:05	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103405708004	12/08/2010 13:02	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103401026003D	12/09/2010 10:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103401026003C	12/09/2010 10:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103401026003B	12/09/2010 10:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103401026003A	12/09/2010 10:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103405711004	12/07/2010 09:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103405708004	12/06/2010 19:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103401026003	12/06/2010 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103405711004	12/06/2010 23:20	Annamaria Stipkovits	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 20:19	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	4	10350162401A	12/16/2010 09:20	William C Schwebel	1
11626	28a Total Solids by 160.3	EPA 160.3 modified	4	10350162401A	12/16/2010 09:20	William C Schwebel	1

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154846
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,990	4.93	19.6		1
07914	Boron	7440-42-8	9.70	0.873	4.90		1
01650	Calcium	7440-70-2	2,840	6.01	19.6		1
01654	Iron	7439-89-6	16,500	4.62	19.6		1
01656	Lithium	7439-93-2	24.2	0.22	2.0		1
01657	Magnesium	7439-95-4	3,560	2.49	9.80		1
06958	Manganese	7439-96-5	243	0.0765	0.490		1
10145	Phosphorus	7723-14-0	409	0.549	9.80		1
01662	Potassium	7440-09-7	1,740	17.6	49.0		1
01667	Sodium	7440-23-5	91.1 J	36.6	98.0		1
07968	Strontium	7440-24-6	12.1	0.0608	0.490		1
06969	Tin	7440-31-5	2.55 J	0.980	9.80		1
06970	Titanium	7440-32-6	1,310	1.86	4.90		5
10146	Zirconium	7440-67-7	4.34 J	0.824	4.90		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0961 J	0.0583	0.194		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	7.70	0.0583	0.388		2
06126	Barium	7440-39-3	73.0	0.105	0.388		2
06127	Beryllium	7440-41-7	0.371	0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.0796 J	0.0350	0.0971		2
06131	Chromium	7440-47-3	15.4	0.117	0.388		2
06132	Cobalt	7440-48-4	4.82	0.0194	0.0971		2
06133	Copper	7440-50-8	7.63	0.0641	0.388		2
06135	Lead	7439-92-1	4.01	0.0101	0.194		2
06138	Molybdenum	7439-98-7	0.153	0.0485	0.0971		2
06139	Nickel	7440-02-0	11.3	0.0971	0.388		2
06141	Selenium	7782-49-2	0.0568 J	0.0388	0.388		2
06142	Silver	7440-22-4	0.0117 U	0.0117	0.0971		2
06145	Thallium	7440-28-0	0.235	0.0291	0.0971		2
06148	Vanadium	7440-62-2	30.6	0.0214	0.0971		2
06149	Zinc	7440-66-6	61.3	0.544	2.91		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0027 U	0.0027	0.0959		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5	0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.2	0.80	1.5		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0 U	9.0	30.0		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.20	1.0		1

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154846
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
05895	21a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.50		1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	467	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	7.03	0.0100	0.0100		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	103405708004	12/08/2010 12:54	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103405708004	12/10/2010 02:58	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103405708004	12/08/2010 12:54	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103401026003D	12/09/2010 09:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103401026003C	12/09/2010 20:06	David K Beck	2
06139	Nickel	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2

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

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

Sample Description: SL-037-SA5C-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5C-SB-3.5-4.5

LLI Sample # SW 6154846
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:47 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03735 SDG#: DE027-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	103401026003B	12/09/2010 09:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103401026003A	12/09/2010 20:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103401026003A	12/09/2010 09:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103405711004	12/07/2010 09:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103405708004	12/06/2010 19:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103401026003	12/06/2010 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103405711004	12/06/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 01:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201A	12/12/2010 01:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 19:07	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 19:26	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202A	12/08/2010 18:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202A	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103A	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403A	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1

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

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

Sample Description: SL-039-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SB-4.0-5.0

LLI Sample # SW 6154847
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 14:49 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03945 SDG#: DE027-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4 U	7.4	8.8		1.02
06192	Benzene	71-43-2	0.11 U	0.11	4.4		1.02
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.4		1.02
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.4		1.02
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.4		1.02
06192	Bromoform	75-25-2	0.44 U	0.44	4.4		1.02
06192	Bromomethane	74-83-9	0.28 U	0.28	4.4		1.02
06192	2-Butanone	78-93-3	1.3 U	1.3	8.8		1.02
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.4		1.02
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.4		1.02
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.4		1.02
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.4		1.02
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.4		1.02
06192	Chloroethane	75-00-3	0.14 U	0.14	4.4		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.4		1.02
06192	Chloroform	67-66-3	0.13 U	0.13	4.4		1.02
06192	Chloromethane	74-87-3	0.36 U	0.36	4.4		1.02
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.4		1.02
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.4		1.02
06192	Chlorotrifluoroethene	79-38-9	0.55 U	0.55	5.5		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77 U	0.77	4.4		1.02
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.4		1.02
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.4		1.02
06192	Dibromomethane	74-95-3	0.27 U	0.27	4.4		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.4		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.4		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.4		1.02
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.4		1.02
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.4		1.02
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.4		1.02
06192	1,1-Dichloroethene	75-35-4	0.43 U	0.43	4.4		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.4		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.4		1.02
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.4		1.02
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.4		1.02
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.4		1.02
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.4		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.4		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.4		1.02
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.4		1.02
06192	Freon 113	76-13-1	0.12 U	0.12	4.4		1.02
06192	Freon 133a	75-88-7	0.55 U	0.55	5.5		1.02
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.4		1.02
06192	2-Hexanone	591-78-6	1.8 U	1.8	8.8		1.02
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.4		1.02
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.4		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.4		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.43 U	0.43	8.8		1.02
06192	Methylene Chloride	75-09-2	0.57 J	0.27	4.4		1.02
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.4		1.02

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Sample Description: SL-039-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SB-4.0-5.0

LLI Sample # SW 6154847
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 14:49 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03945 SDG#: DE027-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.4		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.4		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.4		1.02
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.4		1.02
06192	Toluene	108-88-3	0.09 U	0.09	4.4		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.4		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.4		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.4		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.30 U	0.30	4.4		1.02
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.4		1.02
06192	Trichlorofluoromethane	75-69-4	0.32 U	0.32	4.4		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.4		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.44 U	0.44	4.4		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.4		1.02
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.4		1.02
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.4		1.02
06192	o-Xylene	95-47-6	0.19 U	0.19	4.4		1.02
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.0 U	5.0	15		23.32
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	64.6	18.0	35.9		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

Sample Description: SL-039-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SB-4.0-5.0

LLI Sample # SW 6154847
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 14:49 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03945 SDG#: DE027-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	72	U 72	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	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

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Sample Description: SL-039-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SB-4.0-5.0

LLI Sample # SW 6154847
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 14:49 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03945 SDG#: DE027-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.72 U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72 U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72 U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1		22.48
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81 U	81	160	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1000000	1
10132	HMX	2691-41-0	130 U	130	400	1000000	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1000000	1
10132	3-Nitrotoluene	99-08-1	130 U	130	160	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,200	1000000	1
10132	RDX	121-82-4	67 U	67	160	1000000	1
10132	Tetryl	479-45-8	82 U	82	160	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54 U	54	160	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54 U	54	160	1000000	1

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Sample Description: SL-039-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SB-4.0-5.0

LLI Sample # SW 6154847
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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03945 SDG#: DE027-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by 8315A	50-00-0	650 U	650	1,600	ug/kg	1
Perchlorate							
06557	6a Perchlorate EPA 6850	14797-73-0	2.3 U	2.3	5.4	ug/kg	1
Pesticides/PCBs							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	ug/kg	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	ug/kg	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	ug/kg	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.8	ug/kg	1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8	ug/kg	1
10225	PCB-1232	11141-16-5	0.56 U	0.56	1.8	ug/kg	1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.8	ug/kg	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.8	ug/kg	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.8	ug/kg	1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.8	ug/kg	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.8	ug/kg	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.8	ug/kg	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
10199	EFH (C12-C14)	n.a.	8.6 U	8.6	26	mg/kg	20
10199	EFH (C15-C20)	n.a.	8.6 U	8.6	26	mg/kg	20
10199	EFH (C21-C30)	n.a.	190	8.6	26	mg/kg	20
10199	EFH (C30 - C40)	n.a.	520	8.6	26	mg/kg	20
10199	EFH (C8-C11)	n.a.	8.6 U	8.6	26	mg/kg	20
GC Miscellaneous							
10501	Ethanol	64-17-5	110 U	110	540	ug/kg	1
10501	Isopropanol	67-63-0	110 U	110	540	ug/kg	1
10501	Methanol	67-56-1	110 U	110	540	ug/kg	1
GC Miscellaneous							
08283	Diethylene glycol	111-46-6	5.4 U	5.4	13	mg/kg	1
08283	Ethylene glycol	107-21-1	5.4 U	5.4	13	mg/kg	1
08283	Propylene glycol	57-55-6	5.4 U	5.4	13	mg/kg	1
Terphenyls							
10318	m-Terphenyl	92-06-8	1.6 U	1.6	3.8	mg/kg	1
10318	o-Terphenyl	84-15-1	1.6 U	1.6	3.8	mg/kg	1
10318	p-Terphenyl	92-94-4	1.6 U	1.6	3.8	mg/kg	1
Metals							
SW-846 6010B							

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Sample Description: SL-039-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SB-4.0-5.0

LLI Sample # SW 6154847
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 14:49 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03945 SDG#: DE027-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,700	5.37	21.3		1
07914	Boron	7440-42-8	11.3	0.950	5.33		1
01650	Calcium	7440-70-2	1,870	6.54	21.3		1
01654	Iron	7439-89-6	21,900	5.03	21.3		1
01656	Lithium	7439-93-2	21.8	0.23	2.1		1
01657	Magnesium	7439-95-4	4,290	2.71	10.7		1
06958	Manganese	7439-96-5	137	0.0832	0.533		1
10145	Phosphorus	7723-14-0	80.6	0.597	10.7		1
01662	Potassium	7440-09-7	1,470	19.2	53.3		1
01667	Sodium	7440-23-5	147	39.8	107		1
07968	Strontium	7440-24-6	20.0	0.0661	0.533		1
06969	Tin	7440-31-5	2.56 J	1.07	10.7		1
06970	Titanium	7440-32-6	1,250	2.03	5.33		5
10146	Zirconium	7440-67-7	3.74 J	0.896	5.33		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0992 J	0.0622	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	5.81	0.0622	0.414		2
06126	Barium	7440-39-3	90.5	0.112	0.414		2
06127	Beryllium	7440-41-7	0.620	0.0166	0.104		2
06128	Cadmium	7440-43-9	0.0489 J	0.0373	0.104		2
06131	Chromium	7440-47-3	19.8	0.124	0.414		2
06132	Cobalt	7440-48-4	3.98	0.0207	0.104		2
06133	Copper	7440-50-8	7.73	0.0684	0.414		2
06135	Lead	7439-92-1	5.27	0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.301	0.0518	0.104		2
06139	Nickel	7440-02-0	9.43	0.104	0.414		2
06141	Selenium	7782-49-2	0.0642 J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0228 J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.253	0.0311	0.104		2
06148	Vanadium	7440-62-2	37.4	0.0228	0.104		2
06149	Zinc	7440-66-6	49.1	0.580	3.11		2
	SW-846 7471A		mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4 J	0.86	1.6		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.3		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51 J	0.22	1.1		1

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Sample Description: SL-039-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SB-4.0-5.0

LLI Sample # SW 6154847
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 14:49 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03945 SDG#: DE027-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	459	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.07	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Total Solids by 160.3	n.a.	7.2	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-039-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	B103401AA	12/06/2010 20:01	Laura M Krieger	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402AA	12/06/2010 16:43	Jason M Long	23.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:29	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:46	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033723168	12/03/2010 16:46	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033723168	12/03/2010 16:29	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 08:22	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10340SLD026	12/13/2010 23:53	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10341SLG026	12/09/2010 14:38	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1

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

Sample Description: SL-039-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SB-4.0-5.0

LLI Sample # SW 6154847
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 14:49 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03945 SDG#: DE027-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10341SLG026	12/07/2010 23:10	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10340SLD026	12/07/2010 09:50	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34B	12/07/2010 15:18	Elizabeth J Marin	22.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:28	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 18:56	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400027A	12/08/2010 22:44	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103420019A	12/09/2010 16:32	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/07/2010 23:58	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400027A	12/07/2010 08:10	Denise L Trimby	1
06568	Perchlorate Soil Prep	SW-846 8321A modified	1	103420019A	12/09/2010 09:00	Maria Davenport	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103410019A	12/13/2010 20:27	Heather E Williams	20
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400009A	12/09/2010 07:22	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103400022A	12/06/2010 19:05	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410016A	12/11/2010 06:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103410019A	12/08/2010 09:45	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410016A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103400022A	12/06/2010 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400009A	12/08/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
06970	Titanium	SW-846 6010B	2	103405708004	12/10/2010 03:12	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103405708004	12/08/2010 13:10	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103401026003D	12/09/2010 10:07	Choon Y Tian	2

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Sample Description: SL-039-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SB-4.0-5.0

LLI Sample # SW 6154847
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 14:49 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03945 SDG#: DE027-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103401026003C	12/09/2010 20:09	David K Beck	2
06139	Nickel	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103401026003B	12/09/2010 10:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103401026003A	12/09/2010 10:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103405711004	12/07/2010 09:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103405708004	12/06/2010 19:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103401026003	12/06/2010 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103405711004	12/06/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 03:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201A	12/12/2010 03:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 23:08	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 19:39	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202A	12/08/2010 18:16	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202A	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103A	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403A	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	William C Schwebel	1

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



Analysis Report

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

Page 1 of 7

Sample Description: SL-036-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SB-4.0-5.0

LLI Sample # SW 6154848
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 16:10 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03645 SDG#: DE027-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9 U	6.9	8.3		0.9
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.3 U	1.3	8.3		0.9
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.1		0.9
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3		0.9
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.3		0.9
06192	Methylene Chloride	75-09-2	0.74 J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.9

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

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Sample Description: SL-036-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SB-4.0-5.0

LLI Sample # SW 6154848
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 16:10 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03645 SDG#: DE027-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1		0.9
06192	Toluene	108-88-3	0.08 U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.1		0.9
06192	o-Xylene	95-47-6	0.18 U	0.18	4.1		0.9
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.8 U	4.8	14		21.01
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	570		1
04688	Benzyl alcohol	100-51-6	190	U 190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	77	U 77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570		1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1

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Sample Description: SL-036-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SB-4.0-5.0

LLI Sample # SW 6154848
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 16:10 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03645 SDG#: DE027-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	77	U 77	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	570		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77 U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38 U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38 U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77 U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77 U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77 U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77 U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77 U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9 U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9 U	6.9	21		1
10138	Chrysene	218-01-9	0.38 U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77 U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9 U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9 U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9 U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77 U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77 U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77 U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77 U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77 U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77 U	0.77	1.9		1

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

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

Sample Description: SL-036-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SB-4.0-5.0

LLI Sample # SW 6154848
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 16:10 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03645 SDG#: DE027-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
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	ug/kg
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.8
10225	PCB-1016	12674-11-2	0.38 U	0.38	2.0
10225	PCB-1221	11104-28-2	0.57 U	0.57	2.0
10225	PCB-1232	11141-16-5	0.60 U	0.60	2.0
10225	PCB-1242	53469-21-9	0.57 U	0.57	2.0
10225	PCB-1248	12672-29-6	0.38 U	0.38	2.0
10225	PCB-1254	11097-69-1	0.38 U	0.38	2.0
10225	PCB-1260	11096-82-5	0.38 U	0.38	2.0
10225	PCB-1262	37324-23-5	0.38 U	0.38	2.0
10225	PCB-1268	11100-14-4	0.38 U	0.38	2.0

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	mg/kg
01643	Aluminum	7429-90-5	25,300	5.61	22.3
07914	Boron	7440-42-8	15.9	0.993	5.58
01650	Calcium	7440-70-2	1,950	6.84	22.3
01654	Iron	7439-89-6	23,200	5.26	22.3
01656	Lithium	7439-93-2	21.1	0.25	2.2
01657	Magnesium	7439-95-4	4,410	2.83	11.2
06958	Manganese	7439-96-5	131	0.0870	0.558
10145	Phosphorus	7723-14-0	103	0.625	11.2
01662	Potassium	7440-09-7	1,320	20.1	55.8
01667	Sodium	7440-23-5	205	41.6	112
07968	Strontium	7440-24-6	25.2	0.0692	0.558
06969	Tin	7440-31-5	2.82 J	1.12	11.2
06970	Titanium	7440-32-6	1,380	2.12	5.58
10146	Zirconium	7440-67-7	3.34 J	0.937	5.58

	SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg
06124	Antimony	7440-36-0	0.0937 J	0.0670	0.223
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	6.24	0.0670	0.446
06126	Barium	7440-39-3	98.6	0.121	0.446
06127	Beryllium	7440-41-7	0.901	0.0179	0.112
06128	Cadmium	7440-43-9	0.0402 U	0.0402	0.112
06131	Chromium	7440-47-3	21.7	0.134	0.446
06132	Cobalt	7440-48-4	5.19	0.0223	0.112
06133	Copper	7440-50-8	7.08	0.0737	0.446

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

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

Sample Description: SL-036-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SB-4.0-5.0

LLI Sample # SW 6154848
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 16:10 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03645 SDG#: DE027-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	7.06	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.283	0.0558	0.112		2
06139	Nickel	7440-02-0	10.3	0.112	0.446		2
06141	Selenium	7782-49-2	0.0460 J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0134 U	0.0134	0.112		2
06145	Thallium	7440-28-0	0.250	0.0335	0.112		2
06148	Vanadium	7440-62-2	42.4	0.0246	0.112		2
06149	Zinc	7440-66-6	52.2	0.625	3.35		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.92	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	21.9 J	10.3	34.5		1
		SW-846 7199	mg/kg	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	mV	
01821	Oxidation Reduction Potential	n.a.	484	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.66	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	13.0	0.50	0.50		1
		"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA5C-SB-4.5.

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

Sample Description: SL-036-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SB-4.0-5.0

LLI Sample # SW 6154848
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 16:10 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03645 SDG#: DE027-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103401AA	12/06/2010 20:23	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402AA	12/06/2010 17:03	Jason M Long	21.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:46	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033723168	12/03/2010 16:47	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033723168	12/03/2010 16:32	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10340SLD026	12/14/2010 00:19	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10341SLG026	12/09/2010 15:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10341SLG026	12/07/2010 23:10	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10340SLD026	12/07/2010 09:50	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/08/2010 00:17	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
06970	Titanium	SW-846 6010B	2	103405708004	12/10/2010 03:16	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103405708004	12/08/2010 13:20	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103401026003D	12/09/2010 10:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103401026003C	12/09/2010 20:31	David K Beck	2
06139	Nickel	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103401026003B	12/09/2010 10:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2

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

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

Sample Description: SL-036-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SB-4.0-5.0

LLI Sample # SW 6154848
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 16:10 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

03645 SDG#: DE027-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	103401026003A	12/09/2010 10:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103405711004	12/07/2010 09:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103405708004	12/06/2010 19:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103401026003	12/06/2010 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103405711004	12/06/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201A	12/12/2010 04:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201A	12/17/2010 23:32	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 19:51	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201A	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201A	12/15/2010 22:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103A	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403A	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401B	12/08/2010 11:42	William C Schwebel	1

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

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

Sample Description: DUP10-SA5C-QC-120210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5C-QC-120210

LLI Sample # SW 6154849
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:42 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

DUP10 SDG#: DE027-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.3 U	8.3	9.9		0.96
06192	Benzene	71-43-2	0.12 U	0.12	4.9		0.96
06192	Bromobenzene	108-86-1	0.16 U	0.16	4.9		0.96
06192	Bromochloromethane	74-97-5	0.41 U	0.41	4.9		0.96
06192	Bromodichloromethane	75-27-4	0.1 U	0.1	4.9		0.96
06192	Bromoform	75-25-2	0.49 U	0.49	4.9		0.96
06192	Bromomethane	74-83-9	0.31 U	0.31	4.9		0.96
06192	2-Butanone	78-93-3	1.5 U	1.5	9.9		0.96
06192	n-Butylbenzene	104-51-8	0.15 U	0.15	4.9		0.96
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.9		0.96
06192	tert-Butylbenzene	98-06-6	0.20 U	0.20	4.9		0.96
06192	Carbon Tetrachloride	56-23-5	0.17 U	0.17	4.9		0.96
06192	Chlorobenzene	108-90-7	0.14 U	0.14	4.9		0.96
06192	Chloroethane	75-00-3	0.16 U	0.16	4.9		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37 U	0.37	4.9		0.96
06192	Chloroform	67-66-3	0.15 U	0.15	4.9		0.96
06192	Chloromethane	74-87-3	0.41 U	0.41	4.9		0.96
06192	2-Chlorotoluene	95-49-8	0.17 U	0.17	4.9		0.96
06192	4-Chlorotoluene	106-43-4	0.17 U	0.17	4.9		0.96
06192	Chlorotrifluoroethene	79-38-9	0.62 U	0.62	6.2		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.86 U	0.86	4.9		0.96
06192	Dibromochloromethane	124-48-1	0.25 U	0.25	4.9		0.96
06192	1,2-Dibromoethane	106-93-4	0.21 U	0.21	4.9		0.96
06192	Dibromomethane	74-95-3	0.30 U	0.30	4.9		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.11 U	0.11	4.9		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	4.9		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.20 U	0.20	4.9		0.96
06192	Dichlorodifluoromethane	75-71-8	0.15 U	0.15	4.9		0.96
06192	1,1-Dichloroethane	75-34-3	0.12 U	0.12	4.9		0.96
06192	1,2-Dichloroethane	107-06-2	0.19 U	0.19	4.9		0.96
06192	1,1-Dichloroethene	75-35-4	0.48 U	0.48	4.9		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.23 U	0.23	4.9		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.15 U	0.15	4.9		0.96
06192	1,2-Dichloropropane	78-87-5	0.21 U	0.21	4.9		0.96
06192	1,3-Dichloropropane	142-28-9	0.1 U	0.1	4.9		0.96
06192	2,2-Dichloropropane	594-20-7	0.21 U	0.21	4.9		0.96
06192	1,1-Dichloropropene	563-58-6	0.16 U	0.16	4.9		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	4.9		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.21 U	0.21	4.9		0.96
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.9		0.96
06192	Freon 113	76-13-1	0.14 U	0.14	4.9		0.96
06192	Freon 133a	75-88-7	0.62 U	0.62	6.2		0.96
06192	Hexachlorobutadiene	87-68-3	0.17 U	0.17	4.9		0.96
06192	2-Hexanone	591-78-6	2.0 U	2.0	9.9		0.96
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.9		0.96
06192	p-Isopropyltoluene	99-87-6	0.14 U	0.14	4.9		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26 U	0.26	4.9		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.48 U	0.48	9.9		0.96
06192	Methylene Chloride	75-09-2	0.84 J	0.30	4.9		0.96
06192	n-Propylbenzene	103-65-1	0.09 U	0.09	4.9		0.96

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

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

Sample Description: DUP10-SA5C-QC-120210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5C-QC-120210

LLI Sample # SW 6154849
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:42 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

DUP10 SDG#: DE027-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.12 U	0.12	4.9		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14 U	0.14	4.9		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28 U	0.28	4.9		0.96
06192	Tetrachloroethene	127-18-4	0.25 U	0.25	4.9		0.96
06192	Toluene	108-88-3	0.1 U	0.1	4.9		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.17 U	0.17	4.9		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.22 U	0.22	4.9		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.25 U	0.25	4.9		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.33 U	0.33	4.9		0.96
06192	Trichloroethene	79-01-6	0.19 U	0.19	4.9		0.96
06192	Trichlorofluoromethane	75-69-4	0.36 U	0.36	4.9		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.41 U	0.41	4.9		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.49 U	0.49	4.9		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.12 U	0.12	4.9		0.96
06192	Vinyl Chloride	75-01-4	0.25 U	0.25	4.9		0.96
06192	m+p-Xylene	179601-23-1	0.21 U	0.21	4.9		0.96
06192	o-Xylene	95-47-6	0.21 U	0.21	4.9		0.96
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	6.7 U	6.7	20		26.26
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	304	21.3	42.7		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U 210	640		1
04688	Benzidine	92-87-5	1,500	U 1,500	4,300		1
04688	Benzoic acid	65-85-0	210	U 210	640		1
04688	Benzyl alcohol	100-51-6	210	U 210	640		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U 21	210		1
04688	Carbazole	86-74-8	21	U 21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	43	U 43	210		1
04688	4-Chloroaniline	106-47-8	85	U 85	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U 21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U 21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U 21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U 21	210		1
04688	2-Chlorophenol	95-57-8	21	U 21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	43	U 43	210		1
04688	Dibenzofuran	132-64-9	21	U 21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U 21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U 21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U 21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U 130	430		1
04688	2,4-Dichlorophenol	120-83-2	21	U 21	210		1
04688	2,4-Dimethylphenol	105-67-9	43	U 43	210		1
04688	3,5-Dimethylphenol	108-68-9	43	U 43	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U 210	640		1
04688	2,4-Dinitrophenol	51-28-5	850	U 850	2,600		1

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

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

Sample Description: DUP10-SA5C-QC-120210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5C-QC-120210

LLI Sample # SW 6154849
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:42 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

DUP10 SDG#: DE027-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	43	U 43	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U 21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U 21	210		1
04688	Hexachlorobenzene	118-74-1	21	U 21	210		1
04688	Hexachlorobutadiene	87-68-3	85	U 85	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U 210	640		1
04688	Hexachloroethane	67-72-1	21	U 21	210		1
04688	Isophorone	78-59-1	21	U 21	210		1
04688	2-Methylphenol	95-48-7	43	U 43	210		1
04688	4-Methylphenol	106-44-5	43	U 43	210		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	21	U 21	210		1
04688	3-Nitroaniline	99-09-2	43	U 43	210		1
04688	4-Nitroaniline	100-01-6	85	U 85	210		1
04688	Nitrobenzene	98-95-3	21	U 21	210		1
04688	2-Nitrophenol	88-75-5	21	U 21	210		1
04688	4-Nitrophenol	100-02-7	210	U 210	640		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U 21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U 21	210		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	210	U 210	640		1
04688	Phenol	108-95-2	21	U 21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U 21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	43	U 43	210		1
04688	2,4,6-Trichlorophenol	88-06-2	43	U 43	210		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.85	U 0.85	2.1		1
10138	Acenaphthylene	208-96-8	0.43	U 0.43	2.1		1
10138	Anthracene	120-12-7	0.43	U 0.43	2.1		1
10138	Benzo(a)anthracene	56-55-3	0.85	U 0.85	2.1		1
10138	Benzo(a)pyrene	50-32-8	0.85	U 0.85	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	0.85	U 0.85	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	0.85	U 0.85	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.85	U 0.85	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.7	U 7.7	23		1
10138	Di-n-butylphthalate	84-74-2	7.7	U 7.7	23		1
10138	Chrysene	218-01-9	0.43	U 0.43	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.85	U 0.85	2.1		1
10138	Diethylphthalate	84-66-2	7.7	U 7.7	23		1
10138	Dimethylphthalate	131-11-3	7.7	U 7.7	23		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.7	U 7.7	23		1
10138	Fluoranthene	206-44-0	0.85	U 0.85	2.1		1
10138	Fluorene	86-73-7	0.85	U 0.85	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.85	U 0.85	2.1		1

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

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Sample Description: DUP10-SA5C-QC-120210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5C-QC-120210

LLI Sample # SW 6154849
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:42 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

DUP10 SDG#: DE027-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.85 U	0.85	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.85 U	0.85	2.1		1
10138	Naphthalene	91-20-3	0.85 U	0.85	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.85 U	0.85	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.7 U	7.7	23		1
10138	Phenanthrene	85-01-8	0.85 U	0.85	2.1		1
10138	Pyrene	129-00-0	0.85 U	0.85	2.1		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.3 U	0.3	1.3		24.8
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	96	U 96	190	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	64	U 64	190	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	130	U 130	380	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	130	U 130	380	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	64	U 64	190	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	64	U 64	190	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	64	U 64	190	1000000 0	1
10132	HMX	2691-41-0	160	U 160	480	1000000 0	1
10132	Nitrobenzene	98-95-3	64	U 64	190	1000000 0	1
10132	Nitroglycerin	55-63-0	1,300	U 1,300	3,800	1000000 0	1
10132	2-Nitrotoluene	88-72-2	130	U 130	190	1000000 0	1
10132	3-Nitrotoluene	99-08-1	160	U 160	190	1000000 0	1
10132	4-Nitrotoluene	99-99-0	130	U 130	190	1000000 0	1
10132	PETN	78-11-5	1,300	U 1,300	3,800	1000000 0	1
10132	RDX	121-82-4	80	U 80	190	1000000 0	1
10132	Tetryl	479-45-8	98	U 98	190	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	64	U 64	190	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	64	U 64	190	1000000 0	1

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Sample Description: DUP10-SA5C-QC-120210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5C-QC-120210

LLI Sample # SW 6154849
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:42 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

DUP10 SDG#: DE027-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	770 U	770	1,900		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.3 U	1.3	4.2		1
10225	Aroclor 5442	12642-23-8	1.3 U	1.3	4.2		1
10225	Aroclor 5460	11126-42-4	1.3 U	1.3	4.2		1
10225	PCB-1016	12674-11-2	0.42 U	0.42	2.2		1
10225	PCB-1221	11104-28-2	0.64 U	0.64	2.2		1
10225	PCB-1232	11141-16-5	0.67 U	0.67	2.2		1
10225	PCB-1242	53469-21-9	0.64 U	0.64	2.2		1
10225	PCB-1248	12672-29-6	0.42 U	0.42	2.2		1
10225	PCB-1254	11097-69-1	0.42 U	0.42	2.2		1
10225	PCB-1260	11096-82-5	0.42 U	0.42	2.2		1
10225	PCB-1262	37324-23-5	0.42 U	0.42	2.2		1
10225	PCB-1268	11100-14-4	0.42 U	0.42	2.2		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.51 U	0.51	1.5		1
10199	EFH (C15-C20)	n.a.	0.51 U	0.51	1.5		1
10199	EFH (C21-C30)	n.a.	1.1 J	0.51	1.5		1
10199	EFH (C30 - C40)	n.a.	6.5	0.51	1.5		1
10199	EFH (C8-C11)	n.a.	0.51 U	0.51	1.5		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	130 U	130	640		1
10501	Isopropanol	67-63-0	130 U	130	640		1
10501	Methanol	67-56-1	130 U	130	640		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.4 U	6.4	16		1
08283	Ethylene glycol	107-21-1	6.4 U	6.4	16		1
08283	Propylene glycol	57-55-6	6.4 U	6.4	16		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.9 U	1.9	4.5		1
10318	o-Terphenyl	84-15-1	1.9 U	1.9	4.5		1
10318	p-Terphenyl	92-94-4	1.9 U	1.9	4.5		1
Misc. Organics							
		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.6 U	2.6	6.4		1
10346	Hydrazine	302-01-2	0.64 U	0.64	2.6		1
10346	Methylhydrazine	60-34-4	2.6 U	2.6	6.4		1

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

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

Sample Description: DUP10-SA5C-QC-120210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5C-QC-120210

LLI Sample # SW 6154849
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:42 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

DUP10 SDG#: DE027-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	33,000	6.25	24.9		1
07914	Boron	7440-42-8	15.5	1.11	6.22		1
01650	Calcium	7440-70-2	8,060	7.62	24.9		1
01654	Iron	7439-89-6	46,300	29.3	124		5
01656	Lithium	7439-93-2	65.9	0.27	2.5		1
01657	Magnesium	7439-95-4	8,570	3.16	12.4		1
06958	Manganese	7439-96-5	382	0.0970	0.622		1
10145	Phosphorus	7723-14-0	552	0.696	12.4		1
01662	Potassium	7440-09-7	2,520	22.4	62.2		1
01667	Sodium	7440-23-5	464	46.4	124		1
07968	Strontium	7440-24-6	38.6	0.0771	0.622		1
06969	Tin	7440-31-5	4.25 J	1.24	12.4		1
06970	Titanium	7440-32-6	1,890	2.36	6.22		5
10146	Zirconium	7440-67-7	7.64	1.04	6.22		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.240 J	0.0753	0.251		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	14.6	0.0753	0.502		2
06126	Barium	7440-39-3	214	0.136	0.502		2
06127	Beryllium	7440-41-7	1.59	0.0201	0.126		2
06128	Cadmium	7440-43-9	0.155	0.0452	0.126		2
06131	Chromium	7440-47-3	49.3	0.151	0.502		2
06132	Cobalt	7440-48-4	16.9	0.0251	0.126		2
06133	Copper	7440-50-8	25.9	0.0829	0.502		2
06135	Lead	7439-92-1	16.7	0.0131	0.251		2
06138	Molybdenum	7439-98-7	0.385	0.0628	0.126		2
06139	Nickel	7440-02-0	34.9	0.126	0.502		2
06141	Selenium	7782-49-2	0.116 J	0.0502	0.502		2
06142	Silver	7440-22-4	0.0523 J	0.0151	0.126		2
06145	Thallium	7440-28-0	0.701	0.0377	0.126		2
06148	Vanadium	7440-62-2	76.7	0.0276	0.126		2
06149	Zinc	7440-66-6	145	0.703	3.77		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0203 J	0.0034	0.120		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5	1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2	1.0	1.9		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.5 U	11.5	38.4		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	

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

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

Sample Description: DUP10-SA5C-QC-120210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5C-QC-120210

LLI Sample # SW 6154849
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:42 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

DUP10 SDG#: DE027-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		SW-846 7199	mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	U	0.26	1.3		1
		SW-846 9012B	mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.63		1
		ASTM D1498	mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	459		10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified	Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.99		0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%		%	%	%	
11624	28a Total Solids by 160.3	n.a.	21.9		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
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103401AA	12/06/2010 20:46	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402AA	12/06/2010 17:23	Jason M Long	26.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:47	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033723168	12/03/2010 16:47	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033723168	12/03/2010 16:36	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 08:39	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10340SLD026	12/14/2010 00:44	Ryan P Byrne	1

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

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

Sample Description: DUP10-SA5C-QC-120210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5C-QC-120210

LLI Sample # SW 6154849
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:42 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

DUP10 SDG#: DE027-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10341SLG026	12/09/2010 15:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10341SLG026	12/07/2010 23:10	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10340SLD026	12/07/2010 09:50	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34B	12/07/2010 15:54	Elizabeth J Marin	24.8
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:36	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 19:38	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400027A	12/08/2010 22:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/08/2010 00:36	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400027A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103410019A	12/11/2010 20:56	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400009A	12/09/2010 07:37	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103400022A	12/06/2010 18:49	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410016A	12/11/2010 05:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103410019A	12/08/2010 09:45	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410016A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103400022A	12/06/2010 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400009A	12/08/2010 15:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10341002	12/08/2010 02:16	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
01654	Iron	SW-846 6010B	2	103405708004	12/10/2010 03:20	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	2	103405708004	12/10/2010 03:20	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103405708004	12/08/2010 13:24	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103401026003D	12/09/2010 10:20	Choon Y Tian	2

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

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

Sample Description: DUP10-SA5C-QC-120210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5C-QC-120210

LLI Sample # SW 6154849
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 09:42 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

DUP10 SDG#: DE027-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103401026003A	12/09/2010 20:13	David K Beck	2
06131	Chromium	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103401026003C	12/09/2010 20:13	David K Beck	2
06139	Nickel	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103401026003B	12/09/2010 10:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103401026003A	12/09/2010 10:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103405711004	12/07/2010 09:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103405708004	12/06/2010 19:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103401026003	12/06/2010 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103405711004	12/06/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201A	12/15/2010 14:41	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201A	12/15/2010 14:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 01:32	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 20:04	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202A	12/08/2010 18:17	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10348348201A	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202A	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103A	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403A	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	William C Schwebel	1

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

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

Sample Description: TB-120210 Water
SSFL Area IV Collocated Soil Sampling
TB-120210

LLI Sample # WW 6154850
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 14:15

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

TB202 SDG#: DE027-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	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

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

Sample Description: TB-120210 Water
SSFL Area IV Collocated Soil Sampling
TB-120210

LLI Sample # WW 6154850
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 14:15

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

TB202 SDG#: DE027-05TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l		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	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC	Volatiles	TPH GRO SW-8015B	ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	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
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103422AA	12/08/2010 15:28	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103351AC	12/06/2010 11:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103351AC	12/06/2010 11:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103422AA	12/08/2010 15:28	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10342A20A	12/08/2010 23:13	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10342A20A	12/08/2010 23:13	Marie D John	1

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

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

Sample Description: SL-040-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-4.0-5.0

LLI Sample # SW 6154851
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:19 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04045 SDG#: DE027-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5 J	7.0	8.3		0.92
06192	Benzene	71-43-2	0.10 U	0.10	4.2		0.92
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.2		0.92
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.2		0.92
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.2		0.92
06192	Bromoform	75-25-2	0.42 U	0.42	4.2		0.92
06192	Bromomethane	74-83-9	0.26 U	0.26	4.2		0.92
06192	2-Butanone	78-93-3	1.3 U	1.3	8.3		0.92
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.2		0.92
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.2		0.92
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.2		0.92
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.2		0.92
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.2		0.92
06192	Chloroethane	75-00-3	0.14 U	0.14	4.2		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.2		0.92
06192	Chloroform	67-66-3	0.13 U	0.13	4.2		0.92
06192	Chloromethane	74-87-3	0.34 U	0.34	4.2		0.92
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.2		0.92
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.2		0.92
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73 U	0.73	4.2		0.92
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.2		0.92
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.2		0.92
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.2		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.2		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.2		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.2		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.2		0.92
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.2		0.92
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.2		0.92
06192	1,1-Dichloroethene	75-35-4	0.41 U	0.41	4.2		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.2		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.2		0.92
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.2		0.92
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.2		0.92
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.2		0.92
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.2		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.2		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.2		0.92
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.2		0.92
06192	Freon 113	76-13-1	0.12 U	0.12	4.2		0.92
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2		0.92
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.2		0.92
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3		0.92
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.2		0.92
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.2		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.2		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41 U	0.41	8.3		0.92
06192	Methylene Chloride	75-09-2	0.74 J	0.25	4.2		0.92
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.2		0.92

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

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

Sample Description: SL-040-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-4.0-5.0

LLI Sample # SW 6154851
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:19 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04045 SDG#: DE027-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.2		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.2		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.2		0.92
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.2		0.92
06192	Toluene	108-88-3	0.08 U	0.08	4.2		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.2		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.2		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.2		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.2		0.92
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.2		0.92
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.2		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.2		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.42 U	0.42	4.2		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.2		0.92
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.2		0.92
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.2		0.92
06192	o-Xylene	95-47-6	0.18 U	0.18	4.2		0.92
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.7 U	4.7	14		20.53
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

Sample Description: SL-040-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-4.0-5.0

LLI Sample # SW 6154851
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:19 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04045 SDG#: DE027-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U 0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U 0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U 0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	21		1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U 6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U 0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U 0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U 0.76	1.9		1

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

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Sample Description: SL-040-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-4.0-5.0

LLI Sample # SW 6154851
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:19 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04045 SDG#: DE027-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9		1
Pesticides/PCBs SW-846 8082							
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							
01643	Aluminum	7429-90-5	12,000	5.67	22.6		1
07914	Boron	7440-42-8	9.25	1.00	5.64		1
01650	Calcium	7440-70-2	1,840	6.91	22.6		1
01654	Iron	7439-89-6	15,600	5.31	22.6		1
01656	Lithium	7439-93-2	11.8	0.25	2.3		1
01657	Magnesium	7439-95-4	3,190	2.86	11.3		1
06958	Manganese	7439-96-5	186	0.0880	0.564		1
10145	Phosphorus	7723-14-0	80.6	0.631	11.3		1
01662	Potassium	7440-09-7	1,020	20.3	56.4		1
01667	Sodium	7440-23-5	105 J	42.1	113		1
07968	Strontium	7440-24-6	17.3	0.0699	0.564		1
06969	Tin	7440-31-5	2.62 J	1.13	11.3		1
06970	Titanium	7440-32-6	1,310	2.14	5.64		5
10146	Zirconium	7440-67-7	3.00 J	0.947	5.64		1
SW-846 6020							
06124	Antimony	7440-36-0	0.0910 J	0.0663	0.221		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.32	0.0663	0.442		2
06126	Barium	7440-39-3	129	0.119	0.442		2
06127	Beryllium	7440-41-7	0.610	0.0177	0.111		2
06128	Cadmium	7440-43-9	0.116	0.0398	0.111		2
06131	Chromium	7440-47-3	23.2	0.133	0.442		2
06132	Cobalt	7440-48-4	6.63	0.0221	0.111		2
06133	Copper	7440-50-8	7.13	0.0730	0.442		2

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

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

Sample Description: SL-040-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-4.0-5.0

LLI Sample # SW 6154851
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:19 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04045 SDG#: DE027-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	6.49	0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.355	0.0553	0.111		2
06139	Nickel	7440-02-0	11.8	0.111	0.442		2
06141	Selenium	7782-49-2	0.0630 J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0487 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.198	0.0332	0.111		2
06148	Vanadium	7440-62-2	45.5	0.0243	0.111		2
06149	Zinc	7440-66-6	48.7	0.619	3.32		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91 U	0.91	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2		1
		SW-846 7199	mg/kg	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	mV	
01821	Oxidation Reduction Potential	n.a.	552	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.19	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	12.2	0.50	0.50		1
		"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA5C-SB-4.5.

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

Sample Description: SL-040-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-4.0-5.0

LLI Sample # SW 6154851
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:19 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04045 SDG#: DE027-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103401AA	12/06/2010 21:08	Laura M Krieger	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402AA	12/06/2010 17:42	Jason M Long	20.53
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:39	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033723168	12/03/2010 16:47	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033723168	12/03/2010 16:47	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033723168	12/03/2010 16:40	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10340SLD026	12/14/2010 01:09	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10341SLG026	12/09/2010 16:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10341SLG026	12/07/2010 23:10	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10340SLD026	12/07/2010 09:50	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/08/2010 00:54	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
06970	Titanium	SW-846 6010B	2	103405708004	12/10/2010 03:23	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103405708004	12/08/2010 13:28	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103401026003D	12/09/2010 10:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103401026003C	12/09/2010 20:15	David K Beck	2
06139	Nickel	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103401026003B	12/09/2010 10:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103401026003A	12/09/2010 20:15	David K Beck	2
06148	Vanadium	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2

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

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

Sample Description: SL-040-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-4.0-5.0

LLI Sample # SW 6154851
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:19 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04045 SDG#: DE027-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	103401026003A	12/09/2010 10:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103405711004	12/07/2010 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103405708004	12/06/2010 19:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103401026003	12/06/2010 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103405711004	12/06/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201A	12/15/2010 13:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 01:56	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10349243201A	12/18/2010 20:17	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10348348201A	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103A	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403A	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401B	12/08/2010 11:42	William C Schwebel	1

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

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

Sample Description: SL-040-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-9.0-10.0

LLI Sample # SW 6154852
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:26 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04091 SDG#: DE027-07*

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

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

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

Sample Description: SL-040-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-9.0-10.0

LLI Sample # SW 6154852
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:26 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04091 SDG#: DE027-07*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U 0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U 0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21		1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U 6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U 0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U 0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U 6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U 0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U 0.77	1.9		1
Perchlorate	SW-846 6850 1/2007	ug/kg	ug/kg	ug/kg	ug/kg		
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U 2.4	5.8		1
Pesticides/PCBs	SW-846 8082	ug/kg	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.

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

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

Sample Description: SL-040-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-9.0-10.0

LLI Sample # SW 6154852
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:26 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04091 SDG#: DE027-07*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,800	5.68	22.6		1
07914	Boron	7440-42-8	12.1	1.01	5.65		1
01650	Calcium	7440-70-2	2,150	6.92	22.6		1
01654	Iron	7439-89-6	24,000	5.32	22.6		1
01656	Lithium	7439-93-2	17.6	0.25	2.3		1
01657	Magnesium	7439-95-4	3,300	2.87	11.3		1
06958	Manganese	7439-96-5	168	0.0881	0.565		1
10145	Phosphorus	7723-14-0	129	0.633	11.3		1
01662	Potassium	7440-09-7	1,390	20.3	56.5		1
01667	Sodium	7440-23-5	146	42.1	113		1
07968	Strontium	7440-24-6	16.2	0.0700	0.565		1
06969	Tin	7440-31-5	2.84 J	1.13	11.3		1
06970	Titanium	7440-32-6	1,370	2.15	5.65		5
10146	Zirconium	7440-67-7	5.00 J	0.949	5.65		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.144 J	0.0678	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	7.58	0.0678	0.452		2
06126	Barium	7440-39-3	96.2	0.122	0.452		2
06127	Beryllium	7440-41-7	0.759	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0407 U	0.0407	0.113		2
06131	Chromium	7440-47-3	22.4	0.136	0.452		2
06132	Cobalt	7440-48-4	3.18	0.0226	0.113		2
06133	Copper	7440-50-8	8.56	0.0745	0.452		2
06135	Lead	7439-92-1	6.11	0.0117	0.226		2
06138	Molybdenum	7439-98-7	1.42	0.0565	0.113		2
06139	Nickel	7440-02-0	9.52	0.113	0.452		2
06141	Selenium	7782-49-2	0.0452 U	0.0452	0.452		2
06142	Silver	7440-22-4	0.0520 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.302	0.0339	0.113		2
06148	Vanadium	7440-62-2	43.6	0.0248	0.113		2
06149	Zinc	7440-66-6	44.9	0.633	3.39		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0057 J	0.0033	0.114		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.92	1.2		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52 J	0.23	1.2		1

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

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

Sample Description: SL-040-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-9.0-10.0

LLI Sample # SW 6154852
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:26 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04091 SDG#: DE027-07*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	564	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	Std. Units	
00394	22a pH by 9045C	n.a.	6.92	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids 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	10340SLD026	12/14/2010 01:35	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10341SLG026	12/09/2010 16:53	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10341SLG026	12/07/2010 23:10	Patricia L Foreman	1
00381	BNA Soil Sonication	SW-846 3550B	1	10340SLD026	12/07/2010 09:50	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103420019A	12/09/2010 16:39	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103400026A	12/08/2010 01:13	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103420019A	12/09/2010 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1

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

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

Sample Description: SL-040-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5C-SB-9.0-10.0

LLI Sample # SW 6154852
LLI Group # 1223723
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2010 12:26 by PH

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

Submitted: 12/03/2010 09:10

Reported: 12/29/2010 16:55

04091 SDG#: DE027-07*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
06970	Titanium	SW-846 6010B	2	103405708004	12/10/2010 03:34	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	103405708004	12/08/2010 13:32	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103401026003D	12/09/2010 10:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103401026003C	12/09/2010 10:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103401026003B	12/09/2010 10:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103401026003A	12/09/2010 10:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103405711004	12/07/2010 09:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103405708004	12/06/2010 19:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103401026003	12/06/2010 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103405711004	12/06/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201A	12/15/2010 14:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 02:20	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10349243201A	12/18/2010 20:37	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10348348201A	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103A	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403A	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401B	12/08/2010 11:42	William C Schwebel	1

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

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: B103401AA Sample number(s): 6154843-6154845, 6154847-6154849, 6154851									
Acetone	6.7 U	6.7	8.0	ug/kg	101		32-209		
Benzene	0.10 U	0.10	4.0	ug/kg	102		80-120		
Bromobenzene	0.13 U	0.13	4.0	ug/kg	90		79-120		
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	101		79-124		
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	96		78-120		
Bromoform	0.40 U	0.40	4.0	ug/kg	96		70-120		
Bromomethane	0.25 U	0.25	4.0	ug/kg	79		32-162		
2-Butanone	1.2 U	1.2	8.0	ug/kg	97		46-153		
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	92		72-120		
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	93		75-120		
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	91		75-120		
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	104		69-122		
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	94		80-120		
Chloroethane	0.13 U	0.13	4.0	ug/kg	79		37-154		
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	107		43-146		
Chloroform	0.12 U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33 U	0.33	4.0	ug/kg	84		54-132		
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	91		78-120		
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	91		79-120		
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	141*		22-131		
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	91		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	95		80-120		
Dibromomethane	0.24 U	0.24	4.0	ug/kg	101		80-120		
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	92		79-120		
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	90		78-120		
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	90		79-120		
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	76		20-120		
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	100		80-120		
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	101		71-129		
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	103		73-123		
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	101		80-120		
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	101		79-120		
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	96		80-120		
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	92		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	100		77-120		
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	92		80-120		
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	90		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	99		61-126		
Freon 133a	0.50 U	0.50	5.0	ug/kg	95		78-120		
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	89		57-120		
2-Hexanone	1.6 U	1.6	8.0	ug/kg	69		45-155		
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	97		76-120		
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	94		75-120		

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

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	98		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	77		61-134		
Methylene Chloride	0.40 J	0.24	4.0	ug/kg	96		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	95		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	95		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	96		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	90		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	101		77-120		
Toluene	0.08 U	0.08	4.0	ug/kg	96		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	90		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	104		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	93		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	99		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	90		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	93		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	94		79-120		
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	93		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	84		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	97		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	93		80-120		

Batch number: E103351AC
1,4-Dioxane

Sample number(s): 6154850
0.5 U 0.5 2.0 ug/l 101 60-132

Batch number: E103402AA
1,4-Dioxane

Sample number(s): 6154843-6154845, 6154847-6154849, 6154851
5.0 U 5.0 15 ug/kg 89 94 70-130 5 30

Batch number: Y103422AA

Acetone	6 U	6.	20	ug/l	117	129	49-234	10	30
Benzene	0.5 U	0.5	5	ug/l	96	105	79-120	10	30
Bromobenzene	1 U	1.	5	ug/l	103	114	80-120	11	30
Bromochloromethane	1 U	1.	5	ug/l	99	109	80-120	9	30
Bromodichloromethane	1 U	1.	5	ug/l	93	103	80-120	10	30
Bromoform	1 U	1.	5	ug/l	96	104	61-120	8	30
Bromomethane	1 U	1.	5	ug/l	89	98	44-120	10	30
2-Butanone	3 U	3.	10	ug/l	93	105	66-151	12	30
n-Butylbenzene	1 U	1.	5	ug/l	96	106	74-120	10	30
sec-Butylbenzene	1 U	1.	5	ug/l	102	114	78-120	11	30
tert-Butylbenzene	1 U	1.	5	ug/l	98	109	80-120	10	30
Carbon Tetrachloride	1 U	1.	5	ug/l	100	109	75-123	9	30
Chlorobenzene	0.8 U	0.8	5	ug/l	99	110	80-120	10	30
Chloroethane	1 U	1.	5	ug/l	90	98	49-129	8	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	109	121	56-129	10	30
Chloroform	0.8 U	0.8	5	ug/l	98	108	77-122	10	30
Chloromethane	1 U	1.	5	ug/l	92	102	60-129	10	30
2-Chlorotoluene	1 U	1.	5	ug/l	105	114	80-120	9	30
4-Chlorotoluene	1 U	1.	5	ug/l	98	108	80-120	9	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	120	112	38-136	6	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	114	126*	66-120	10	30
Dibromochloromethane	1 U	1.	5	ug/l	101	110	80-120	9	30
1,2-Dibromoethane	1 U	1.	5	ug/l	101	112	80-120	10	30
Dibromomethane	1 U	1.	5	ug/l	97	107	80-120	9	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	95	105	80-120	10	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	100	111	80-120	11	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	98	108	80-120	10	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	66	73	47-120	10	30
1,1-Dichloroethane	1 U	1.	5	ug/l	101	111	79-120	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.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

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	99	110	70-130	10	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	96	106	74-123	10	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	100	111	80-120	10	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	111	80-120	11	30
1,2-Dichloropropane	1 U	1.	5	ug/l	95	105	78-120	9	30
1,3-Dichloropropane	1 U	1.	5	ug/l	102	112	80-120	9	30
2,2-Dichloropropane	1 U	1.	5	ug/l	93	104	77-124	10	30
1,1-Dichloropropene	1 U	1.	5	ug/l	97	107	80-120	10	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	90	100	80-120	10	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	96	108	79-120	12	30
Ethylbenzene	0.8 U	0.8	5	ug/l	97	109	79-120	11	30
Freon 113	2 U	2.	10	ug/l	94	102	69-128	8	30
Freon 133a	2 U	2.	5	ug/l	106	103	77-120	3	30
Hexachlorobutadiene	2 U	2.	5	ug/l	88	101	58-120	14	30
2-Hexanone	3 U	3.	10	ug/l	99	111	65-136	11	30
Isopropylbenzene	1 U	1.	5	ug/l	97	108	77-120	10	30
p-Isopropyltoluene	1 U	1.	5	ug/l	101	111	80-120	9	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	109	76-120	12	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	94	107	70-121	12	30
Methylene Chloride	2 U	2.	5	ug/l	100	113	80-120	12	30
n-Propylbenzene	1 U	1.	5	ug/l	105	116	80-120	10	30
Styrene	1 U	1.	5	ug/l	98	107	80-120	8	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	102	114	80-120	11	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	105	117	71-120	10	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	98	109	80-121	10	30
Toluene	0.7 U	0.7	5	ug/l	100	109	79-120	9	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	96	108	65-120	12	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	93	107	67-120	13	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	85	96	75-127	12	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	100	111	80-120	10	30
Trichloroethene	1 U	1.	5	ug/l	95	105	80-120	10	30
Trichlorofluoromethane	2 U	2.	5	ug/l	79	85	64-129	8	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	108	119	80-120	10	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	105	115	74-120	9	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	102	113	75-120	10	30
Vinyl Chloride	1 U	1.	5	ug/l	83	93	65-125	11	30
m+p-Xylene	0.8 U	0.8	5	ug/l	95	105	80-120	10	30
o-Xylene	0.8 U	0.8	5	ug/l	96	106	80-120	10	30

Batch number: 10340SLA026
N-Nitrosodimethylamine

Sample number(s): 6154843-6154845, 6154847, 6154849
16.7 U 16.7 33.3 ng/kg

91 70-130

Batch number: 10340SLD026

Sample number(s): 6154843-6154845, 6154847-6154849, 6154851-6154852

Acenaphthene
Acenaphthylene
Aniline

17 U 17. 170 ug/kg
17 U 17. 170 ug/kg
170 U 170. 500 ug/kg

94 76-111
96 75-122
53 10-107

Anthracene

17 U 17. 170 ug/kg

95 76-112

Benzidine

1,200 U 1,200. 3,300 ug/kg

39 15-121

Benzo(a)anthracene

17 U 17. 170 ug/kg

96 73-112

Benzo(a)pyrene

17 U 17. 170 ug/kg

97 69-122

Benzo(b)fluoranthene

17 U 17. 170 ug/kg

97 61-127

Benzo(g,h,i)perylene

17 U 17. 170 ug/kg

96 65-122

Benzo(k)fluoranthene

17 U 17. 170 ug/kg

102 67-125

Benzoic acid

170 U 170. 500 ug/kg

79 10-154

Benzyl alcohol

170 U 170. 500 ug/kg

96 68-111

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97	79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	98	75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	97	79-112		
Carbazole	17	U	17.	170	ug/kg	93	77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94	74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	39	10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96	70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95	70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	92	68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71	67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	95	72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96	79-110		
Chrysene	17	U	17.	170	ug/kg	96	76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	98	70-128		
Dibenzofuran	17	U	17.	170	ug/kg	94	79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89	79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89	70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91	74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	48	38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97	75-111		
Diethylphthalate	17	U	17.	170	ug/kg	94	76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93	72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105	70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94	77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	71	53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	54	37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	92	73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	93	79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99	77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96	75-117		
Fluoranthene	17	U	17.	170	ug/kg	93	78-116		
Fluorene	17	U	17.	170	ug/kg	93	75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	94	78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	95	70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	85	46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86	68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	95	64-119		
Isophorone	17	U	17.	170	ug/kg	92	69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	95	74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	88	76-105		
2-Methylphenol	33	U	33.	170	ug/kg	92	66-110		
4-Methylphenol	33	U	33.	170	ug/kg	97	66-117		
Naphthalene	17	U	17.	170	ug/kg	92	73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	88	78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	85	62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	61	49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89	71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91	81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	76	56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	91	63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	89	60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99	67-141		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	17	U	17.	170	ug/kg	106		68-130		
Pentachlorophenol	170		170.	500	ug/kg	76		35-106		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	92		58-112		
Pyrene	17	U	17.	170	ug/kg	102		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	91		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		

Batch number: 10341SLG026 Sample number(s): 6154843-6154845, 6154847-6154849, 6154851-6154852

Acenaphthene	0.67	U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	95		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	94		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	95		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	90		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	92		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	104		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	91		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	100		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	114		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	94		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	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		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	91		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	113		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	91		56-121		

Batch number: 10336A34B Sample number(s): 6154843-6154845, 6154847, 6154849
9a TPH by EPA 8015B Gas 0.2 U 0.2 1.0 mg/kg 76 85 67-119 11 30

Batch number: 10342A20A Sample number(s): 6154850
TPH-GRO S.CA water C5-C12 20 U 20. 50 ug/l 109 109 75-135 0 30

Batch number: 103380015A Sample number(s): 6154843-6154845, 6154847, 6154849										
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	103		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100		100.	300	ug/kg	65	88	54-134	30	30
2,4-Diamino-6-nitrotoluene	100		100.	300	ug/kg	65	88	54-134	30	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	104		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	104		80-120		
HMX	130		130.	380	ug/kg	98		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	105		80-120		
Nitroglycerin	1,000		1,000.	3,000	ug/kg	95		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	100 U	100.	150	ug/kg	107		78-128		
3-Nitrotoluene	130 U	130.	150	ug/kg	104		73-127		
4-Nitrotoluene	100 U	100.	150	ug/kg	103		80-120		
PETN	1,000 U	1,000.	3,000	ug/kg	105		80-120		
RDX	63 U	63.	150	ug/kg	100		75-131		
Tetryl	77 U	77.	150	ug/kg	109		70-168		
1,3,5-Trinitrobenzene	50 U	50.	150	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	50 U	50.	150	ug/kg	106		80-120		
Batch number: 103400027A	Sample number(s): 6154843-6154845, 6154847, 6154849								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	100		80-126		
Batch number: 103420019A	Sample number(s): 6154847, 6154852								
6a Perchlorate EPA 6850	2.1 U	2.1	5.0	ug/kg	96		70-130		
Batch number: 103400026A	Sample number(s): 6154843-6154845, 6154847-6154849, 6154851-6154852								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	54*	51*	75-125	6	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	95		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	106		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: 103410019A	Sample number(s): 6154843-6154845, 6154847, 6154849								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	102		66-113		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	106		66-113		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	109		66-113		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	107		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	85		66-113		
Batch number: 103400009A	Sample number(s): 6154843-6154845, 6154847, 6154849								
Ethanol	100 U	100.	500	ug/kg	98		75-112		
Isopropanol	100 U	100.	500	ug/kg	100		75-125		
Methanol	100 U	100.	500	ug/kg	107		75-134		
Batch number: 103400022A	Sample number(s): 6154843-6154845, 6154847, 6154849								
Diethylene glycol	5.0 U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	107		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	100		75-125		
Batch number: 103410016A	Sample number(s): 6154843-6154845, 6154847, 6154849								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	103		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	107		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	102		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10341002	Sample number(s): 6154843-6154845, 6154849								
1,1-Dimethylhydrazine	2.0 U	2.0	5.0	ng/g	82	109	70-130	28	30
Hydrazine	0.50 U	0.50	2.0	ng/g	84	113	70-130	29	30
Methylhydrazine	2.0 U	2.0	5.0	ng/g	78	94	70-130	18	30
Batch number: 103401026003A	Sample number(s): 6154843-6154849, 6154851-6154852								
Antimony	0.0600 U	0.0600	0.200	mg/kg	105		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	102		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	109		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	99		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	107		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	107		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	109		81-119		
Vanadium	0.0357 J	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	100		78-122		
Batch number: 103401026003B	Sample number(s): 6154843-6154849, 6154851-6154852								
Selenium	0.0400 U	0.0400	0.400	mg/kg	112		79-122		
Batch number: 103401026003C	Sample number(s): 6154843-6154849, 6154851-6154852								
Molybdenum	0.0723 J	0.0500	0.100	mg/kg	109		78-122		
Batch number: 103401026003D	Sample number(s): 6154843-6154849, 6154851-6154852								
Barium	0.108 U	0.108	0.400	mg/kg	109		79-121		
Batch number: 103405708004	Sample number(s): 6154843-6154849, 6154851-6154852								
Aluminum	6.51 J	5.03	20.0	mg/kg	102		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	98		78-110		
Calcium	66.1	6.13	20.0	mg/kg	95		88-110		
Iron	5.56 J	4.71	20.0	mg/kg	108		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	0.811 J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3 U	37.3	100	mg/kg	94		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.29 J	1.00	10.0	mg/kg	107		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	115		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	107		80-120		
Batch number: 103405711004	Sample number(s): 6154843-6154849, 6154851-6154852								
Mercury	0.0028 U	0.0028	0.0993	mg/kg	97		88-123		
Batch number: 10342102202A	Sample number(s): 6154843-6154844, 6154846-6154847, 6154849								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	105		80-120		
Batch number: 10344344201A	Sample number(s): 6154843-6154844, 6154846-6154848								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	97		90-110		
Batch number: 10348348201A	Sample number(s): 6154849, 6154851-6154852								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	106		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 10349243201A	Sample number(s): 6154843-6154844, 6154846-6154849, 6154851-6154852								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10349349201A	Sample number(s): 6154843-6154848								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	101		85-115		
Batch number: 10349349201B	Sample number(s): 6154849, 6154851-6154852								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	101		85-115		
Batch number: 10340039403A	Sample number(s): 6154843, 6154846-6154849, 6154851-6154852								
22a pH by 9045C					101		95-105		
Batch number: 10340182103A	Sample number(s): 6154843, 6154846-6154849, 6154851-6154852								
Oxidation Reduction Potential					99		98-102		
Batch number: 10342162401B	Sample number(s): 6154848, 6154851-6154852								
28a Total Solids by 160.3					100		80-120		
Batch number: 10347162401A	Sample number(s): 6154847, 6154849								
28a Total Solids by 160.3					100		80-120		
Batch number: 10350162401A	Sample number(s): 6154843-6154845								
28a Total Solids by 160.3					100		80-120		
28a Total Solids by 160.3					100		80-120		
28a Total Solids 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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103401AA	Sample number(s): 6154843-6154845, 6154847-6154849, 6154851 UNSPK: 6154843								
Acetone	88	91	15-210	3	30				
Benzene	114	110	55-143	4	30				
Bromobenzene	99	97	43-139	2	30				
Bromochloromethane	106	106	60-137	0	30				
Bromodichloromethane	106	103	53-136	3	30				
Bromoform	96	92	38-124	4	30				
Bromomethane	81	84	42-168	4	30				
2-Butanone	82	85	37-163	4	30				
n-Butylbenzene	101	96	30-146	6	30				
sec-Butylbenzene	104	99	33-157	5	30				
tert-Butylbenzene	100	97	41-152	3	30				
Carbon Tetrachloride	118	111	45-153	6	30				
Chlorobenzene	106	100	49-135	6	30				
Chloroethane	82	86	39-152	5	30				
2-Chloroethyl Vinyl Ether	98	104	32-139	6	30				
Chloroform	113	109	61-142	4	30				
Chloromethane	93	102	51-163	9	30				
2-Chlorotoluene	102	97	42-146	5	30				

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Group Number: 1223723

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
4-Chlorotoluene	103	97	39-145	6	30				
Chlorotrifluoroethene	154*	155*	70-130	18	30				
1,2-Dibromo-3-chloropropane	81	81	30-139	1	30				
Dibromochloromethane	101	96	51-128	5	30				
1,2-Dibromoethane	98	94	54-129	4	30				
Dibromomethane	106	103	57-130	3	30				
1,2-Dichlorobenzene	101	95	36-133	6	30				
1,3-Dichlorobenzene	100	95	34-134	5	30				
1,4-Dichlorobenzene	99	96	35-136	4	30				
Dichlorodifluoromethane	87	85	26-151	2	30				
1,1-Dichloroethane	111	109	63-142	2	30				
1,2-Dichloroethane	109	105	68-131	4	30				
1,1-Dichloroethene	117	113	61-149	4	30				
cis-1,2-Dichloroethene	113	110	60-136	3	30				
trans-1,2-Dichloroethene	113	111	59-142	2	30				
1,2-Dichloropropane	108	105	62-135	3	30				
1,3-Dichloropropane	99	95	58-129	4	30				
2,2-Dichloropropane	114	111	53-147	3	30				
1,1-Dichloropropene	113	110	54-145	3	30				
cis-1,3-Dichloropropene	100	100	51-131	1	30				
trans-1,3-Dichloropropene	97	93	49-129	4	30				
Ethylbenzene	106	100	44-141	6	30				
Freon 113	106	110	56-156	4	30				
Freon 133a	104	104	70-130	18	30				
Hexachlorobutadiene	93	92	10-155	2	30				
2-Hexanone	58	62	32-160	5	30				
Isopropylbenzene	107	101	38-144	6	30				
p-Isopropyltoluene	103	98	29-152	5	30				
Methyl Tertiary Butyl Ether	94	100	55-129	6	30				
4-Methyl-2-pentanone	67	70	46-139	5	30				
Methylene Chloride	107	108	61-141	1	30				
n-Propylbenzene	105	99	39-157	6	30				
Styrene	104	100	35-134	4	30				
1,1,1,2-Tetrachloroethane	105	102	52-130	4	30				
1,1,2,2-Tetrachloroethane	89	86	40-152	4	30				
Tetrachloroethene	118	111	42-149	7	30				
Toluene	107	102	50-146	4	30				
1,2,3-Trichlorobenzene	94	91	10-140	2	30				
1,2,4-Trichlorobenzene	92	92	10-136	0	30				
1,1,1-Trichloroethane	115	111	64-142	4	30				
1,1,2-Trichloroethane	99	96	54-139	3	30				
Trichloroethene	113	109	53-144	3	30				
Trichlorofluoromethane	100	98	47-163	2	30				
1,2,3-Trichloropropane	90	87	45-154	3	30				
1,2,4-Trimethylbenzene	103	97	37-149	7	30				
1,3,5-Trimethylbenzene	103	98	38-150	5	30				
Vinyl Chloride	94	94	50-154	0	30				
m+p-Xylene	108	101	44-137	7	30				
o-Xylene	103	99	42-137	4	30				

Batch number: E103351AC

Sample number(s): 6154850 UNSPK: P151866

1,4-Dioxane

100 119 50-150 8 30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

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: E103402AA 1,4-Dioxane	84	91	70-130	13	30	6154847-6154849, 6154851	UNSPK: 6154843		
Batch number: 10340SLA026 N-Nitrosodimethylamine	81	99	70-130	17	30	6154843-6154845, 6154847, 6154849	UNSPK: 6154843		
Batch number: 10340SLD026	Sample number(s): 6154843-6154845, 6154847-6154849, 6154851-6154852 UNSPK: 6154843								
Acenaphthene	95	98	75-115	3	30				
Acenaphthylene	102	103	49-126	2	30				
Aniline	74	76	14-114	3	30				
Anthracene	97	96	75-115	1	30				
Benizidine	37	47	35-141	25	30				
Benzo(a)anthracene	91	95	65-122	4	30				
Benzo(a)pyrene	98	99	57-126	2	30				
Benzo(b)fluoranthene	96	97	59-125	1	30				
Benzo(g,h,i)perylene	92	98	59-127	6	30				
Benzo(k)fluoranthene	102	106	56-132	4	30				
Benzoic acid	69	74	10-173	7	30				
Benzyl alcohol	102	101	55-123	1	30				
4-Bromophenyl-phenylether	99	96	67-129	2	30				
Butylbenzylphthalate	97	101	73-134	4	30				
Di-n-butylphthalate	96	94	67-123	2	30				
Carbazole	93	93	64-120	1	30				
4-Chloro-3-methylphenol	95	94	53-130	0	30				
4-Chloroaniline	69	74	23-95	7	30				
bis(2-Chloroethoxy)methane	96	95	54-117	1	30				
bis(2-Chloroethyl)ether	102	97	60-116	5	30				
bis(2-Chloroisopropyl)ether	99	92	55-142	8	30				
2-Chloronaphthalene	76	76	50-141	1	30				
2-Chlorophenol	102	98	73-121	4	30				
4-Chlorophenyl-phenylether	102	102	64-119	0	30				
Chrysene	95	101	62-128	6	30				
Dibenz(a,h)anthracene	95	98	65-125	3	30				
Dibenzofuran	98	99	71-112	1	30				
1,2-Dichlorobenzene	91	89	66-108	2	30				
1,3-Dichlorobenzene	90	85	63-109	6	30				
1,4-Dichlorobenzene	89	87	53-113	3	30				
3,3'-Dichlorobenzidine	59	71	25-123	18	30				
2,4-Dichlorophenol	97	97	78-117	0	30				
Diethylphthalate	94	96	66-118	2	30				
2,4-Dimethylphenol	94	95	56-130	1	30				
3,5-Dimethylphenol	105	109	70-130	3	30				
Dimethylphthalate	97	98	64-118	1	30				
4,6-Dinitro-2-methylphenol	70	69	10-148	1	30				
2,4-Dinitrophenol	38	47	20-143	21	30				
2,4-Dinitrotoluene	94	96	57-114	2	30				
2,6-Dinitrotoluene	97	96	69-123	2	30				
1,2-Diphenylhydrazine	101	100	71-129	0	30				
bis(2-Ethylhexyl)phthalate	94	99	63-122	5	30				
Fluoranthene	94	93	59-122	1	30				
Fluorene	95	97	60-125	2	30				
Hexachlorobenzene	97	90	61-111	7	30				
Hexachlorobutadiene	94	92	62-120	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

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
Hexachlorocyclopentadiene	87	82	10-153	7	30				
Hexachloroethane	86	83	57-109	4	30				
Indeno(1,2,3-cd)pyrene	95	97	61-126	2	30				
Isophorone	94	92	51-118	2	30				
1-Methylnaphthalene	95	95	73-112	0	30				
2-Methylnaphthalene	90	87	76-114	3	30				
2-Methylphenol	97	97	47-142	1	30				
4-Methylphenol	100	99	55-126	1	30				
Naphthalene	92	93	72-116	0	30				
2-Nitroaniline	99	94	67-125	5	30				
3-Nitroaniline	91	90	59-122	1	30				
4-Nitroaniline	72	78	52-112	8	30				
Nitrobenzene	93	91	51-114	3	30				
2-Nitrophenol	88	89	74-115	1	30				
4-Nitrophenol	77	78	39-133	1	30				
N-Nitroso-di-n-propylamine	95	93	60-116	3	30				
N-Nitrosodimethylamine	90	89	47-116	1	30				
N-Nitrosodiphenylamine	100	98	86-145	2	30				
Di-n-octylphthalate	106	108	56-126	2	30				
Pentachlorophenol	77	75	17-149	2	30				
Phenanthrene	97	95	65-125	1	30				
Phenol	100	97	58-126	3	30				
Pyrene	100	105	51-151	5	30				
1,2,4-Trichlorobenzene	92	95	72-115	3	30				
2,4,5-Trichlorophenol	99	96	34-139	3	30				
2,4,6-Trichlorophenol	101	104	49-140	2	30				

Batch number: 10341SLG026	Sample number(s): 6154843-6154845, 6154847-6154849, 6154851-6154852 UNSPK: 6154843								
Acenaphthene	93	92	63-105	1	30				
Acenaphthylene	95	88	55-126	8	30				
Anthracene	96	92	46-136	5	30				
Benzo(a)anthracene	99	94	39-144	4	30				
Benzo(a)pyrene	91	88	34-156	4	30				
Benzo(b)fluoranthene	99	94	43-155	5	30				
Benzo(g,h,i)perylene	82	86	33-141	5	30				
Benzo(k)fluoranthene	93	92	42-144	1	30				
Butylbenzylphthalate	117	101	73-140	15	30				
Di-n-butylphthalate	107	113	78-160	5	30				
Chrysene	97	94	29-156	3	30				
Dibenz(a,h)anthracene	88	90	41-130	2	30				
Diethylphthalate	103	97	87-131	6	30				
Dimethylphthalate	101	96	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	121	104	39-167	16	30				
Fluoranthene	99	98	26-166	1	30				
Fluorene	97	95	45-121	2	30				
Indeno(1,2,3-cd)pyrene	86	88	21-143	2	30				
1-Methylnaphthalene	94	88	72-123	7	30				
2-Methylnaphthalene	88	81	28-121	7	30				
Naphthalene	91	85	61-102	6	30				
N-Nitrosodimethylamine	92	87	48-113	6	30				
Di-n-octylphthalate	116	102	40-192	14	30				
Phenanthrene	93	91	12-165	2	30				
Pyrene	94	83	15-153	12	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

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: 10336A34B 9a TPH by EPA 8015B Gas	Sample number(s): 6154843-6154845, 6154847, 6154849 UNSPK: 6154843 69 70 39-118 4 30								
Batch number: 10342A20A TPH-GRO S.CA water C5-C12	Sample number(s): 6154850 UNSPK: P156271 113 63-154								
Batch number: 103380015A 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 1,3-Dinitrobenzene 2,4-Dinitrotoluene 2,6-Dinitrotoluene HMX Nitrobenzene Nitroglycerin 2-Nitrotoluene 3-Nitrotoluene 4-Nitrotoluene PETN RDX Tetryl 1,3,5-Trinitrobenzene 2,4,6-Trinitrotoluene	Sample number(s): 6154843-6154845, 6154847, 6154849 UNSPK: 6154843 106 104 80-127 1 50 107 106 80-137 1 50 114 103 38-166 10 50 103 102 80-131 1 50 106 105 80-127 1 50 98 98 63-128 0 50 103 101 80-125 1 50 102 101 80-120 1 50 107 107 80-122 0 50 105 105 72-119 0 50 104 102 80-125 2 50 109 108 80-121 1 50 94 94 75-129 0 50 111 106 55-174 4 50 114 112 82-126 2 50 105 103 82-130 2 50								
Batch number: 103400027A 17a Formaldehyde by 8315A	Sample number(s): 6154843-6154845, 6154847, 6154849 UNSPK: 6154843 97 97 80-120 0 50								
Batch number: 103420019A 6a Perchlorate EPA 6850	Sample number(s): 6154847, 6154852 UNSPK: P151502 101 106 70-130 5 30								
Batch number: 103400026A PCB-1016 PCB-1260	Sample number(s): 6154843-6154845, 6154847-6154849, 6154851-6154852 UNSPK: 6154843 85 81 29-146 5 50 96 97 39-149 0 50								
Batch number: 103410019A EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30 - C40) EFH (C8-C11)	Sample number(s): 6154843-6154845, 6154847, 6154849 UNSPK: 6154843 77 82 49-123 6 20 93 98 49-123 5 20 101 105 49-123 3 20 75 71 49-123 3 20 55 68 49-123 21* 20								
Batch number: 103400009A Ethanol Isopropanol Methanol	Sample number(s): 6154843-6154845, 6154847, 6154849 UNSPK: 6154843 103 106 24-143 3 20 105 108 75-125 3 20 112 116 45-136 4 20								
Batch number: 103400022A Diethylene glycol Ethylene glycol Propylene glycol	Sample number(s): 6154843-6154845, 6154847, 6154849 UNSPK: 6154843 60 88 59-109 37* 20 94 94 63-107 1 20 85 86 63-107 1 20								
Batch number: 103410016A	Sample number(s): 6154843-6154845, 6154847, 6154849 UNSPK: 6154843								

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

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
m-Terphenyl	88	99	75-125	13	20				
o-Terphenyl	90	102	75-125	13	20				
p-Terphenyl	100	101	75-125	1	20				
Batch number: 10341002	Sample number(s): 6154843-6154845,6154849 UNSPK: 6154843								
1,1-Dimethylhydrazine	71	73	10-116	3	30				
Hydrazine	23	24	11-102	7	30				
Methylhydrazine	31	31	10-92	1	30				
Batch number: 103401026003A	Sample number(s): 6154843-6154849,6154851-6154852 UNSPK: 6154843 BKG: 6154843								
Antimony	51*	53*	75-125	2	20	0.192 J	0.0961 J	67* (1)	20
Arsenic	-138 (2)	-26 (2)	75-125	20	20	12.6	7.70	48*	20
Beryllium	94	100	75-125	4	20	0.460	0.371	21* (1)	20
Cadmium	128*	119	75-125	6	20	0.0741 J	0.0796 J	7 (1)	20
Chromium	67*	80	75-125	5	20	19.5	15.4	24*	20
Cobalt	96	98	75-125	2	20	5.70	4.82	17	20
Copper	74*	85	75-125	6	20	10.0	7.63	27*	20
Lead	75	84	75-125	3	20	5.41	4.01	30*	20
Nickel	76	87	75-125	5	20	13.6	11.3	19	20
Silver	117	129*	75-125	10	20	0.0118 U	0.0117 U	0 (1)	20
Thallium	96	80	75-125	9	20	0.365	0.235	44* (1)	20
Vanadium	38*	55*	75-125	4	20	38.2	30.6	22*	20
Zinc	-84 (2)	-56 (2)	75-125	4	20	81.5	61.3	28*	20
Batch number: 103401026003B	Sample number(s): 6154843-6154849,6154851-6154852 UNSPK: 6154843 BKG: 6154843								
Selenium	113	116	75-125	2	20	0.0821 J	0.0568 J	36* (1)	20
Batch number: 103401026003C	Sample number(s): 6154843-6154849,6154851-6154852 UNSPK: 6154843 BKG: 6154843								
Molybdenum	113	123	75-125	8	20	0.202	0.153	28* (1)	20
Batch number: 103401026003D	Sample number(s): 6154843-6154849,6154851-6154852 UNSPK: 6154843 BKG: 6154843								
Barium	-175 (2)	-58 (2)	75-125	12	20	107	73.0	37*	20
Batch number: 103405708004	Sample number(s): 6154843-6154849,6154851-6154852 UNSPK: 6154843 BKG: 6154843								
Aluminum	764 (2)	792 (2)	75-125	0	20	9,080	8,990	1	20
Boron	97	96	84-115	1	20	10.1	9.70	4 (1)	20
Calcium	177 (2)	113 (2)	75-125	8	20	2,660	2,840	6	20
Iron	61 (2)	457 (2)	75-125	2	20	16,800	16,500	2	20
Lithium	96	92	82-114	4	20	23.9	24.2	1	20
Magnesium	167 (2)	98 (2)	75-125	4	20	3,550	3,560	0	20
Manganese	125 (2)	96 (2)	75-125	5	20	236	243	3	20
Phosphorus	104	2270*	75-125	138*	20	370	409	10	20
Potassium	118	108	75-125	4	20	1,760	1,740	1	20
Sodium	98	95	75-125	4	20	89.0 J	91.1 J	2 (1)	20
Strontium	97	98	75-115	0	20	11.7	12.1	3	20
Tin	98	96	80-110	2	20	2.52 J	2.55 J	1 (1)	20
Titanium	317 (2)	294 (2)	75-125	2	20	1,300	1,310	1	20
Zirconium	103	97	75-125	6	20	3.33 J	4.34 J	26* (1)	20
Batch number: 103405711004	Sample number(s): 6154843-6154849,6154851-6154852 UNSPK: 6154843 BKG: 6154843								
Mercury	100	93	65-135	8	20	0.0028 U	0.0027 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

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: 10342102202A	Sample number(s): 6154843-6154844, 6154846-6154847, 6154849 UNSPK: 6154843 BKG: 6154843								
21a Cyanide by 9012B	102		75-125			0.18	U	0.18	U
Batch number: 10344344201A	Sample number(s): 6154843-6154844, 6154846-6154848 UNSPK: 6154843 BKG: 6154843								
11a Anions by 300.0 - Fluoride	93		80-120			4.5	5.5	20 (1)	20
11a Anions by 300.0 - Nitrate	114		80-120			2.3	4.2	58* (1)	20
Batch number: 10348348201A	Sample number(s): 6154849, 6154851-6154852 UNSPK: 6154851 BKG: 6154851								
11a Anions by 300.0 - Fluoride	97		80-120			0.80	U	0.87	J
11a Anions by 300.0 - Nitrate	96		80-120			2.7	2.7	1 (1)	20
Batch number: 10349243201A	Sample number(s): 6154843-6154844, 6154846-6154849, 6154851-6154852 UNSPK: 6154843 BKG: 6154843								
3a Cr VI by EPA 7199	90		75-125			0.20	U	0.35	J
Batch number: 10349349201A	Sample number(s): 6154843-6154848 UNSPK: 6154843 BKG: 6154843								
7a Perchlorate EPA 314.0	86	86	80-120	0	20	9.9	J	9.0	U
Batch number: 10349349201B	Sample number(s): 6154849, 6154851-6154852 UNSPK: P156146 BKG: P156146								
7a Perchlorate EPA 314.0	85		80-120			9.0	U	9.0	U
Batch number: 10340039403A	Sample number(s): 6154843, 6154846-6154849, 6154851-6154852 BKG: 6154843								
22a pH by 9045C						7.02	7.03	0	
Batch number: 10340182103A	Sample number(s): 6154843, 6154846-6154849, 6154851-6154852 BKG: 6154843								
Oxidation Reduction Potential						465	467	0	
Batch number: 10342162401B	Sample number(s): 6154848, 6154851-6154852 BKG: 6154848								
28a Total Solids by 160.3						13.0	12.0	8	
Batch number: 10347162401A	Sample number(s): 6154847, 6154849 BKG: P154843								
28a Total Solids by 160.3						21.9	30.1	32*	
Batch number: 10350162401A	Sample number(s): 6154843-6154845 BKG: 6154843								
28a Total Solids by 160.3						12.4	13.1	6	20
28a Total Solids by 160.3						12.4	13.1	6	20
28a Total Solids by 160.3						12.4	13.1	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: 1a Volatile Organics EPA 8260B

Batch number: B103401AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6154843	104	101	96

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

Surrogate Quality Control

6154844	104	104	100	101
6154845	102	99	99	100
6154847	105	101	97	95
6154848	105	99	97	93
6154849	107	101	97	96
6154851	104	97	97	94
Blank	105	103	97	97
LCS	103	106	99	103
MS	104	104	100	101
MSD	102	99	99	100

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

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103351AC
Toluene-d8

6154850	102
Blank	100
LCS	100
MS	102
MSD	101

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103402AA
Toluene-d8

6154843	98
6154844	99
6154845	99
6154847	99
6154848	98
6154849	99
6154851	99
Blank	97
LCS	99
LCSD	100
MS	99
MSD	99

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260

Batch number: Y103422AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6154850	101	102	106	100
Blank	101	99	107	100
LCS	102	101	107	101
LCSD	103	105	108	102

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

Analysis Name: 19a NDMA by 1625C
Batch number: 10340SLA026

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

Surrogate Quality Control

N-Nitrosodimethylamine-
d6

6154843	81
6154844	92
6154845	72
6154847	62
6154849	120
Blank	93
LCS	86
MS	92
MSD	72

Limits: 50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10340SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6154843	87	85	81	74	81	83
6154844	93	92	85	82	92	87
6154845	92	91	86	83	93	88
6154847	96	94	84	84	93	89
6154848	93	92	89	83	94	90
6154849	88	87	82	79	89	85
6154851	92	92	83	82	91	89
6154852	92	89	83	82	91	94
Blank	89	88	86	79	90	85
LCS	89	90	83	83	88	85
MS	93	92	85	82	92	87
MSD	92	91	86	83	93	88

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

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10341SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6154843	80	75	77
6154844	91	83	84
6154845	84	77	79
6154847	67	65	72
6154848	87	81	87
6154849	88	81	87
6154851	86	79	87
6154852	89	81	87
Blank	89	84	87
LCS	92	85	86
MS	91	83	84
MSD	84	77	79

Limits: 40-130 45-130 45-135

Analysis Name: 9a TPH by EPA 8015B Gas
Batch number: 10336A34B
Trifluorotoluene-F

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

Surrogate Quality Control

6154843 81
6154844 84
6154845 89
6154847 85
6154849 91
Blank 99
LCS 103
LCSD 108
MS 84
MSD 89

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10342A20A
Trifluorotoluene-F

6154850 85
Blank 83
LCS 120
LCSD 121
MS 117

Limits: 63-135

Analysis Name: 20a Energetics by 8330A
Batch number: 103380015A
2-Nitro-m-xylene

6154843 121
6154844 123
6154845 112
6154847 139
6154849 125
Blank 107
LCS 115
LCSD 111
MS 123
MSD 112

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103400026A
Tetrachloro-m-xylene Decachlorobiphenyl

6154843	92	78
6154844	99	91
6154845	99	93
6154847	98	90
6154848	99	85
6154849	95	87
6154851	100	92
6154852	95	83
Blank	97	87
LCS	106	99
LCSD	87	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.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

Surrogate Quality Control

MS	99	91
MSD	99	93

Limits: 53-139 45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103400027A
Butyraldehyde

6154843	113
6154844	104
6154845	106
6154847	107
6154849	99
Blank	92
LCS	101
MS	104
MSD	106

Limits: 64-126

Analysis Name: 25a Alcohols by 8015B
Batch number: 103400009A
Acetone

6154843	98
6154844	91
6154845	103
6154847	81
6154849	96
Blank	107
LCS	97
MS	91
MSD	103

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103400022A
Tetramethylene glycol

6154843	61
6154844	99
6154845	90
6154847	86
6154849	84
Blank	95
LCS	103
MS	99
MSD	90

Limits: 50-119

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103410016A
n-Triacontane-d62

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:55 PM

Group Number: 1223723

Surrogate Quality Control

6154843	96
6154844	94
6154845	96
6154847	204*
6154849	93
Blank	99
LCS	91
MS	94
MSD	96

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103410019A

	Chlorobenzene	Orthoterphenyl
6154843	62	77
6154844	78	84
6154845	80	84
6154847	81	101
6154849	57	68
Blank	74	91
LCS	91	98
MS	78	84
MSD	80	84

Limits: 37-125 47-145

*- 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 1223723 6154843 - 52

CHAIN OF CUSTODY RECORD

CDM		SSFL AREA IV COLLOCATED SOIL SAMPLING																						Other Instructions and Notes						
NOTES:																														
*Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																														
Samplers: (Signature) <i>Pamela Hartman Sully Samantoni</i>						VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/60208&7471A	*Hex Chrome EPA 7199	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																									
DUP10-SA5C-QC-120210	12.02.10	0942	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														
DUP10-SA5C-QC-120210	12.02.10	0942	soil	none	1 - 16 oz. jar														X	X		X	X	X	X			X		
DUP10-SA5C-QC-120210	12.02.10	0942	soil	none	3 - 4 oz. jars					X																	X	X		
DUP10-SA5C-QC-120210	12.02.10	0942	soil	none	1 - 4 oz. amber jar																X									
TB-120210	12.02.10	1415	water	HCl	4 - 40 ml vials	X	X	X																					Trip Blank	
DUP10-SA5C-QC-120210	12.02.10	0942	soil	none	5 encore samplers	X	X	X																						
SL-040-SA5C-SB-4.5	12.02.10	1215	soil	none	4 encore samplers	X	X																							
SL-037-SA5C-SB-4.0MS	12.02.10	0938	soil	none	15 encore samplers	X	X	X																					MS/MSD	
SL-039-SA5C-SB-4.5	12.02.10	1444	soil	none	5 encore samplers	X	X	X																						
SL-036-SA5C-SB-4.5	12.02.10	1605	soil	none	4 encore samplers	X	X																							
SL-040-SA5C-SB-9.0-10.0	12.02.10	1226	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X	X													
SL-040-SA5C-SB-4.0-5.0	12.02.10	1219	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														
						<i>Sully Samantoni</i> 12/2/10																								
Relinquished by: (Signature) <i>Sully Samantoni</i>						Date/Time 12.02.10 1630		Received for Laboratory by: (Signature) <i>M. M.</i>				Date/Time 12/3/10 910												Laboratory: Lancaster Laboratories, Inc.						
Received by: (Signature) <i>FedEx</i>						Date/Time		Airbill No. 00732992														Cooler 2								
						Tracking Number 869514318461																								

13013 1223723 6154843-52

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 Hantman Shelly Samantoni						
SAMPLE NUMBER	DATE	TIME	MATRIX	PRESERVATIVE	Type & No. of Containers	
SL-039-SA5C-SB-4.0-5.0	12.02.10	1449	soil	none	2 - 16 oz. jars	
SL-039-SA5C-SB-4.0-5.0	12.02.10	1449	soil	none	1 - 16 oz. jar	
SL-039-SA5C-SB-4.0-5.0	12.02.10	1449	soil	none	3 - 4 oz. jars	
SL-036-SA5C-SB-4.0-5.0	12.02.10	1610	soil	none	2 - 16 oz. jars	
Shelly Samantoni 12/2/10						
Relinquished by: (Signature) <i>Shelly Samantoni</i>						
Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:			
12.02.10 1630	<i>[Signature]</i>	12/3/10 910	Lancaster Laboratories, Inc.			
Received by: (Signature) <i>FedEx</i>	Airbill No. 00732992	Tracking Number 869514318450	Cooler 3			

13013 1223723 6154843-52

CHAIN OF CUSTODY RECORD

[illegible]

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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 $\geq IDL$
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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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 29, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/04/2010

Group Number: 1223933

SDG: DE028

PO Number: 1203-004-007-AL

Release Number: Tracking #11667

State of Sample Origin: CA

Client Sample DescriptionSL-030-SA5C-SB-9.0-10.0 Soil
SL-030-SA5C-SB-4.0-5.0 Soil
SL-031-SA5C-SB-9.0-10.0 Soil
SL-031-SA5C-SB-4.0-5.0 Soil
SL-032-SA5C-SB-4.0-5.0 Soil
SL-032-SA5C-SB-4.0-5.0MS Soil
SL-032-SA5C-SB-4.0-5.0MSD Soil
SL-032-SA5C-SB-4.0-5.0DUP Soil
DUP11-SA5C-QC-120310 Soil
TB-120310 WaterLancaster Labs (LLI) #6156142
6156143
6156144
6156145
6156146
6156147
6156148
6156149
6156150
6156151

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

ELECTRONIC CDM Federal Services Program

COPY TO

1 COPY TO Data Package Group

Attn: Todd Burgesser

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

Respectfully Submitted,


Martha L. Seidel
Senior Chemist

Sample Description: SL-030-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-9.0-10.0

LLI Sample # SW 6156142
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S09 SDG#: DE028-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	25	6.9	8.3		0.91
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.7 J	1.3	8.3		0.91
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.14 U	0.14	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73 U	0.73	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.1		0.91
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.1		0.91
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3		0.91
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.3		0.91
06192	Methylene Chloride	75-09-2	0.64 J	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.91

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

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

Sample Description: SL-030-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-9.0-10.0

LLI Sample # SW 6156142
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S09 SDG#: DE028-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1		0.91
06192	Toluene	108-88-3	0.09 J	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.1		0.91
06192	o-Xylene	95-47-6	0.18 U	0.18	4.1		0.91
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6 U	4.6	14		20.1
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.9 U	18.9	37.9		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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Sample Description: SL-030-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-9.0-10.0

LLI Sample # SW 6156142
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S09 SDG#: DE028-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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
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	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	0.77	J 0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U 0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	20		1
10138	Chrysene	218-01-9	1.2	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	6.8	U 6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9		1

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Sample Description: SL-030-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-9.0-10.0

LLI Sample # SW 6156142
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S09 SDG#: DE028-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
			ug/kg	ug/kg	ug/kg	ug/kg	
10138	1-Methylnaphthalene	90-12-0	0.76 U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76 U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76 U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9		1
GC Volatiles TPH GRO SW-846 8015B mod							
			mg/kg	mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1		21.66
Explosives SW-846 8330A							
			ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85 U	85	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57 U	57	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	57 U	57	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	57 U	57	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	57 U	57	170	1000000 0	1
10132	HMX	2691-41-0	140 U	140	430	1000000 0	1
10132	Nitrobenzene	98-95-3	57 U	57	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110 U	110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110 U	110	170	1000000 0	1
10132	PETN	78-11-5	1,100 U	1,100	3,400	1000000 0	1
10132	RDX	121-82-4	71 U	71	170	1000000 0	1
10132	Tetryl	479-45-8	87 U	87	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	57 U	57	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	57 U	57	170	1000000 0	1

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SSFL Area IV Collocated Soil Sampling
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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	680 U	680	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45 U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45 U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	7.2	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	27	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45 U	0.45	1.4		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	110	570		1
10501	Isopropanol	67-63-0	110 U	110	570		1
10501	Methanol	67-56-1	110 U	110	570		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7 U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7 U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7 U	5.7	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	4.0		1
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,200	5.66	22.5		1
07914	Boron	7440-42-8	1.00 U	1.00	5.63		1
01650	Calcium	7440-70-2	2,230	6.90	22.5		1
01654	Iron	7439-89-6	21,200	5.30	22.5		1

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Sample Description: SL-030-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-9.0-10.0

LLI Sample # SW 6156142
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S09 SDG#: DE028-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	22.5	0.25	2.3		1
01657	Magnesium	7439-95-4	4,310	2.86	11.3		1
06958	Manganese	7439-96-5	252	0.0878	0.563		1
10145	Phosphorus	7723-14-0	178	0.630	11.3		1
01662	Potassium	7440-09-7	1,940	20.3	56.3		1
01667	Sodium	7440-23-5	132	42.0	113		1
07968	Strontium	7440-24-6	20.4	0.0698	0.563		1
06969	Tin	7440-31-5	2.86 J	1.13	11.3		1
06970	Titanium	7440-32-6	1,360	2.14	5.63		5
10146	Zirconium	7440-67-7	1.64 J	0.945	5.63		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0682 U	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	7.70	0.0682	0.455		2
06126	Barium	7440-39-3	133	0.123	0.455		2
06127	Beryllium	7440-41-7	0.905	0.0182	0.114		2
06128	Cadmium	7440-43-9	0.200	0.0409	0.114		2
06131	Chromium	7440-47-3	23.3	0.136	0.455		2
06132	Cobalt	7440-48-4	10.1	0.0227	0.114		2
06133	Copper	7440-50-8	8.24	0.0750	0.455		2
06135	Lead	7439-92-1	7.62	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.604	0.0568	0.114		2
06139	Nickel	7440-02-0	14.8	0.114	0.455		2
06141	Selenium	7782-49-2	0.0569 J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0567 J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.281	0.0341	0.114		2
06148	Vanadium	7440-62-2	49.2	0.0250	0.114		2
06149	Zinc	7440-66-6	62.3	0.636	3.41		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0064 J	0.0031	0.110		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6	0.91	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1

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Sample Description: SL-030-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-9.0-10.0

LLI Sample # SW 6156142
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S09 SDG#: DE028-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	559	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.16	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	12.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-030-SA5C-SB-9.5.

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	B103421AA	12/08/2010 03:26	Holly Berry	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402BA	12/06/2010 18:01	Jason M Long	20.1
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:40	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033823180	12/04/2010 15:40	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033823180	12/04/2010 15:09	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10341SLB026	12/22/2010 12:22	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10341SLH026	12/14/2010 03:40	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10342SLD026	12/10/2010 01:13	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10341SLB026	12/07/2010 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10342SLD026	12/08/2010 16:50	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10341SLH026	12/07/2010 23:30	Patricia L Foreman	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10340B34A	12/07/2010 19:20	Marie D John	21.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:09	Christopher D Weeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 08:56	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400028A	12/08/2010 23:22	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103410008A	12/08/2010 15:23	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103410008A	12/07/2010 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400028A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103420006A	12/14/2010 00:39	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400012A	12/08/2010 17:22	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420001A	12/08/2010 17:06	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410017A	12/11/2010 14:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103420006A	12/08/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410017A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420001A	12/08/2010 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400012A	12/08/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103415708003	12/08/2010 23:06	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103415708003	12/10/2010 11:49	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103415708003	12/08/2010 23:06	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103415708003	12/08/2010 23:06	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103415708003	12/08/2010 23:06	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103415708003	12/08/2010 23:06	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103415708003	12/08/2010 23:06	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103415708003	12/08/2010 23:06	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103415708003	12/08/2010 23:06	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103415708003	12/08/2010 23:06	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103415708003	12/08/2010 23:06	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103415708003	12/10/2010 11:49	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103415708003	12/10/2010 11:52	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103415708003	12/10/2010 11:49	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103411026001D	12/09/2010 12:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2

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

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

Sample Description: SL-030-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-9.0-10.0

LLI Sample # SW 6156142
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S09 SDG#: DE028-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	103411026001C	12/09/2010 12:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103411026001B	12/09/2010 12:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103411026001A	12/09/2010 12:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103415711003	12/08/2010 07:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103415708003	12/07/2010 21:11	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103411026001	12/07/2010 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103415711003	12/07/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201A	12/15/2010 15:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201A	12/15/2010 15:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 02:44	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 08:18	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202B	12/08/2010 18:19	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10348348201A	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202B	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103A	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403A	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401A	12/20/2010 16:51	Scott W Freisher	1

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

Sample Description: SL-030-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-4.0-5.0

LLI Sample # SW 6156143
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:36

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S04 SDG#: DE028-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5 U	6.5	7.8		0.88
06192	Benzene	71-43-2	0.1 U	0.1	3.9		0.88
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9		0.88
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9		0.88
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9		0.88
06192	Bromoform	75-25-2	0.39 U	0.39	3.9		0.88
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9		0.88
06192	2-Butanone	78-93-3	1.2 U	1.2	7.8		0.88
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9		0.88
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9		0.88
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9		0.88
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9		0.88
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9		0.88
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9		0.88
06192	Chloroform	67-66-3	0.12 U	0.12	3.9		0.88
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9		0.88
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9		0.88
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68 U	0.68	3.9		0.88
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	3.9		0.88
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9		0.88
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9		0.88
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9		0.88
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9		0.88
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	3.9		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9		0.88
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9		0.88
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9		0.88
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9		0.88
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9		0.88
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9		0.88
06192	Freon 113	76-13-1	0.11 U	0.11	3.9		0.88
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9		0.88
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.8		0.88
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9		0.88
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	3.9		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.8		0.88
06192	Methylene Chloride	75-09-2	0.60 J	0.23	3.9		0.88
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9		0.88

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Sample Description: SL-030-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-4.0-5.0

LLI Sample # SW 6156143
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:36

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S04 SDG#: DE028-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1 U	0.1	3.9		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.9		0.88
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	3.9		0.88
06192	Toluene	108-88-3	0.08 J	0.08	3.9		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	3.9		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	3.9		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9		0.88
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9		0.88
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.9		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9		0.88
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	3.9		0.88
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	3.9		0.88
06192	o-Xylene	95-47-6	0.17 U	0.17	3.9		0.88
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.4 U	4.4	13		19.9
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.5 U	18.5	37.0		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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

Sample Description: SL-030-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-4.0-5.0

LLI Sample # SW 6156143
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:36

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S04 SDG#: DE028-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	37	U 37	190		1
04688	4-Methylphenol	106-44-5	37	U 37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	37	U 37	190		1
04688	4-Nitroaniline	100-01-6	74	U 74	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	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	0.83	J 0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.87	J 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	1.4	J 0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9		1

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

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Sample Description: SL-030-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-4.0-5.0

LLI Sample # SW 6156143
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:36

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S04 SDG#: DE028-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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	0.82 J	0.74	1.9		1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0		22.52
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U 83	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U 56	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	56	U 56	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	56	U 56	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	56	U 56	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	420	1000000 0	1
10132	Nitrobenzene	98-95-3	56	U 56	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1000000 0	1
10132	RDX	121-82-4	69	U 69	170	1000000 0	1
10132	Tetryl	479-45-8	85	U 85	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U 56	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U 56	170	1000000 0	1

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Sample Description: SL-030-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-4.0-5.0

LLI Sample # SW 6156143
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:36

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	670 U	670	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44 U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.46 J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	14	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	54	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44 U	0.44	1.3		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	110	560		1
10501	Isopropanol	67-63-0	110 U	110	560		1
10501	Methanol	67-56-1	110 U	110	560		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6 U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6 U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6 U	5.6	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	3.9		1
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,900	5.43	21.6		1
07914	Boron	7440-42-8	0.960 U	0.960	5.39		1
01650	Calcium	7440-70-2	2,550	6.61	21.6		1
01654	Iron	7439-89-6	19,400	5.08	21.6		1

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SSFL Area IV Collocated Soil Sampling
SL-030-SA5C-SB-4.0-5.0

LLI Sample # SW 6156143
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 10:36

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

30S04 SDG#: DE028-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	20.6	0.24	2.2		1
01657	Magnesium	7439-95-4	4,240	2.74	10.8		1
06958	Manganese	7439-96-5	344	0.0841	0.539		1
10145	Phosphorus	7723-14-0	476	0.604	10.8		1
01662	Potassium	7440-09-7	3,810	19.4	53.9		1
01667	Sodium	7440-23-5	125	40.2	108		1
07968	Strontium	7440-24-6	16.4	0.0669	0.539		1
06969	Tin	7440-31-5	3.18 J	1.08	10.8		1
06970	Titanium	7440-32-6	1,310	2.05	5.39		5
10146	Zirconium	7440-67-7	1.64 J	0.906	5.39		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0779 J	0.0654	0.218		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.87	0.0654	0.436		2
06126	Barium	7440-39-3	154	0.118	0.436		2
06127	Beryllium	7440-41-7	0.682	0.0174	0.109		2
06128	Cadmium	7440-43-9	0.116	0.0392	0.109		2
06131	Chromium	7440-47-3	22.8	0.131	0.436		2
06132	Cobalt	7440-48-4	7.35	0.0218	0.109		2
06133	Copper	7440-50-8	11.8	0.0719	0.436		2
06135	Lead	7439-92-1	7.63	0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.779	0.0545	0.109		2
06139	Nickel	7440-02-0	14.5	0.109	0.436		2
06141	Selenium	7782-49-2	0.134 J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0411 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.278	0.0327	0.109		2
06148	Vanadium	7440-62-2	44.7	0.0240	0.109		2
06149	Zinc	7440-66-6	80.1	0.610	3.27		2
		SW-846 7471A	mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.5	0.89	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.3		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	548	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.33	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	10.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-030-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	B103421AA	12/08/2010 03:48	Holly Berry	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402BA	12/06/2010 18:21	Jason M Long	19.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:13	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:40	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033823180	12/04/2010 15:13	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10341SLB026	12/22/2010 12:39	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10341SLH026	12/14/2010 04:06	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10342SLD026	12/10/2010 01:45	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10341SLB026	12/07/2010 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10342SLD026	12/08/2010 16:50	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10341SLH026	12/07/2010 23:30	Patricia L Foreman	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10340B34A	12/07/2010 19:56	Marie D John	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:12	Christopher D Weeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 09:39	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400028A	12/08/2010 23:41	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103410008A	12/08/2010 15:42	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103410008A	12/07/2010 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400028A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103420006A	12/14/2010 01:04	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400012A	12/08/2010 17:37	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420001A	12/08/2010 15:30	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410017A	12/11/2010 15:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103420006A	12/08/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410017A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420001A	12/08/2010 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400012A	12/08/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103415708003	12/08/2010 23:17	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103415708003	12/10/2010 11:56	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103415708003	12/08/2010 23:17	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103415708003	12/08/2010 23:17	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103415708003	12/08/2010 23:17	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103415708003	12/08/2010 23:17	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103415708003	12/08/2010 23:17	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103415708003	12/08/2010 23:17	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103415708003	12/08/2010 23:17	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103415708003	12/08/2010 23:17	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103415708003	12/08/2010 23:17	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103415708003	12/10/2010 11:56	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103415708003	12/10/2010 12:00	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103415708003	12/10/2010 11:56	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103411026001D	12/09/2010 12:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103411026001A	12/09/2010 20:18	David K Beck	2
06131	Chromium	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	103411026001C	12/09/2010 12:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103411026001B	12/09/2010 12:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103411026001A	12/09/2010 20:18	David K Beck	2
06148	Vanadium	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103411026001A	12/09/2010 12:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103415711003	12/08/2010 07:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103415708003	12/07/2010 21:11	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103411026001	12/07/2010 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103415711003	12/07/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201A	12/15/2010 15:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201A	12/15/2010 15:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 03:08	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 08:31	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202B	12/08/2010 18:20	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10348348201A	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202B	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103A	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403A	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401A	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: SL-031-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-9.0-10.0

LLI Sample # SW 6156144
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:44

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S09 SDG#: DE028-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	17	6.5	7.8		0.85
06192	Benzene	71-43-2	0.1 U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39 U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9		0.85
06192	2-Butanone	78-93-3	1.2 U	1.2	7.8		0.85
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12 U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68 U	0.68	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11 U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.8		0.85
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.8		0.85
06192	Methylene Chloride	75-09-2	0.50 J	0.23	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9		0.85

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Sample Description: SL-031-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-9.0-10.0

LLI Sample # SW 6156144
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:44

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S09 SDG#: DE028-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1 U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	3.9		0.85
06192	Toluene	108-88-3	0.08 U	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17 U	0.17	3.9		0.85
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1 U	5.1	15		22.28
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.1 U	19.1	38.3		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	570		1
04688	Benzyl alcohol	100-51-6	190	U 190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	77	U 77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570		1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300		1

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

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

Sample Description: SL-031-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-9.0-10.0

LLI Sample # SW 6156144
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:44

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S09 SDG#: DE028-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J 19	380		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	77	U 77	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	570		1
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	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	0.59	J 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9		1

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

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Sample Description: SL-031-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-9.0-10.0

LLI Sample # SW 6156144
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:44

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S09 SDG#: DE028-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	0.9		19.78
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U 86	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U 57	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	57	U 57	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	57	U 57	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	57	U 57	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	430	1000000 0	1
10132	Nitrobenzene	98-95-3	57	U 57	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,400	1000000 0	1
10132	RDX	121-82-4	72	U 72	170	1000000 0	1
10132	Tetryl	479-45-8	88	U 88	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U 57	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U 57	170	1000000 0	1

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Sample Description: SL-031-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-9.0-10.0

LLI Sample # SW 6156144
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:44

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S09 SDG#: DE028-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by 8315A	50-00-0	4,800 ug/kg	690 ug/kg	1,700 ug/kg	ug/kg	1
Perchlorate							
06557	6a Perchlorate EPA 6850	14797-73-0	2.4 U ug/kg	2.4 ug/kg	5.7 ug/kg	ug/kg	1
Pesticides/PCBs							
10225	Aroclor 5432	63496-31-1	1.1 U ug/kg	1.1 ug/kg	3.8 ug/kg	ug/kg	1
10225	Aroclor 5442	12642-23-8	1.1 U ug/kg	1.1 ug/kg	3.8 ug/kg	ug/kg	1
10225	Aroclor 5460	11126-42-4	1.1 U ug/kg	1.1 ug/kg	3.8 ug/kg	ug/kg	1
10225	PCB-1016	12674-11-2	0.38 U ug/kg	0.38 ug/kg	2.0 ug/kg	ug/kg	1
10225	PCB-1221	11104-28-2	0.57 U ug/kg	0.57 ug/kg	2.0 ug/kg	ug/kg	1
10225	PCB-1232	11141-16-5	0.60 U ug/kg	0.60 ug/kg	2.0 ug/kg	ug/kg	1
10225	PCB-1242	53469-21-9	0.57 U ug/kg	0.57 ug/kg	2.0 ug/kg	ug/kg	1
10225	PCB-1248	12672-29-6	0.38 U ug/kg	0.38 ug/kg	2.0 ug/kg	ug/kg	1
10225	PCB-1254	11097-69-1	0.38 U ug/kg	0.38 ug/kg	2.0 ug/kg	ug/kg	1
10225	PCB-1260	11096-82-5	0.38 U ug/kg	0.38 ug/kg	2.0 ug/kg	ug/kg	1
10225	PCB-1262	37324-23-5	0.38 U ug/kg	0.38 ug/kg	2.0 ug/kg	ug/kg	1
10225	PCB-1268	11100-14-4	0.38 U ug/kg	0.38 ug/kg	2.0 ug/kg	ug/kg	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
10199	EFH (C12-C14)	n.a.	0.46 U mg/kg	0.46 mg/kg	1.4 mg/kg	mg/kg	1
10199	EFH (C15-C20)	n.a.	0.46 U mg/kg	0.46 mg/kg	1.4 mg/kg	mg/kg	1
10199	EFH (C21-C30)	n.a.	9.6 U mg/kg	0.46 mg/kg	1.4 mg/kg	mg/kg	1
10199	EFH (C30 - C40)	n.a.	36 U mg/kg	0.46 mg/kg	1.4 mg/kg	mg/kg	1
10199	EFH (C8-C11)	n.a.	0.46 U mg/kg	0.46 mg/kg	1.4 mg/kg	mg/kg	1
GC Miscellaneous							
10501	Ethanol	64-17-5	110 U ug/kg	110 ug/kg	570 ug/kg	ug/kg	1
10501	Isopropanol	67-63-0	110 U ug/kg	110 ug/kg	570 ug/kg	ug/kg	1
10501	Methanol	67-56-1	110 U ug/kg	110 ug/kg	570 ug/kg	ug/kg	1
GC Miscellaneous							
08283	Diethylene glycol	111-46-6	5.7 U mg/kg	5.7 mg/kg	14 mg/kg	mg/kg	1
08283	Ethylene glycol	107-21-1	5.7 U mg/kg	5.7 mg/kg	14 mg/kg	mg/kg	1
08283	Propylene glycol	57-55-6	5.7 U mg/kg	5.7 mg/kg	14 mg/kg	mg/kg	1
Terphenyls							
10318	m-Terphenyl	92-06-8	1.7 U mg/kg	1.7 mg/kg	4.0 mg/kg	mg/kg	1
10318	o-Terphenyl	84-15-1	1.7 U mg/kg	1.7 mg/kg	4.0 mg/kg	mg/kg	1
10318	p-Terphenyl	92-94-4	1.7 U mg/kg	1.7 mg/kg	4.0 mg/kg	mg/kg	1
Metals							
SW-846 6010B							

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

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

Sample Description: SL-031-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-9.0-10.0

LLI Sample # SW 6156144
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:44

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S09 SDG#: DE028-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	29,300	5.72	22.7		1
07914	Boron	7440-42-8	1.01 U	1.01	5.68		1
01650	Calcium	7440-70-2	3,240	6.97	22.7		1
01654	Iron	7439-89-6	29,600	5.35	22.7		1
01656	Lithium	7439-93-2	33.6	0.25	2.3		1
01657	Magnesium	7439-95-4	5,400	2.89	11.4		1
06958	Manganese	7439-96-5	209	0.0887	0.568		1
10145	Phosphorus	7723-14-0	126	0.637	11.4		1
01662	Potassium	7440-09-7	1,780	20.5	56.8		1
01667	Sodium	7440-23-5	209	42.4	114		1
07968	Strontium	7440-24-6	28.5	0.0705	0.568		1
06969	Tin	7440-31-5	2.91 J	1.14	11.4		1
06970	Titanium	7440-32-6	1,270	2.16	5.68		5
10146	Zirconium	7440-67-7	1.42 J	0.955	5.68		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.111 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	6.87	0.0682	0.455		2
06126	Barium	7440-39-3	159	0.123	0.455		2
06127	Beryllium	7440-41-7	0.971	0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0938 J	0.0409	0.114		2
06131	Chromium	7440-47-3	33.7	0.136	0.455		2
06132	Cobalt	7440-48-4	6.44	0.0227	0.114		2
06133	Copper	7440-50-8	11.6	0.0750	0.455		2
06135	Lead	7439-92-1	7.81	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.660	0.0568	0.114		2
06139	Nickel	7440-02-0	16.1	0.114	0.455		2
06141	Selenium	7782-49-2	0.0670 J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0775 J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.356	0.0341	0.114		2
06148	Vanadium	7440-62-2	51.6	0.0250	0.114		2
06149	Zinc	7440-66-6	70.0	0.637	3.41		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0096 J	0.0032	0.111		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5 J	0.92	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1

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

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

Sample Description: SL-031-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-9.0-10.0

LLI Sample # SW 6156144
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:44

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S09 SDG#: DE028-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	497	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.15	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Total Solids by 160.3	n.a.	12.9	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-031-SA5C-SB-9.5.

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	B103421AA	12/08/2010 04:11	Holly Berry	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402BA	12/06/2010 18:41	Jason M Long	22.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033823180	12/04/2010 15:17	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10341SLB026	12/22/2010 12:57	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10341SLH026	12/14/2010 04:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10342SLD026	12/10/2010 02:16	Gregory J Drahovsky	1

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

Sample Description: SL-031-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-9.0-10.0

LLI Sample # SW 6156144
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:44

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S09 SDG#: DE028-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10341SLB026	12/07/2010 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10342SLD026	12/08/2010 16:50	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10341SLH026	12/07/2010 23:30	Patricia L Foreman	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10340B34A	12/07/2010 20:32	Marie D John	19.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:17	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 10:21	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400028A	12/08/2010 23:50	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103420019A	12/09/2010 16:45	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103410008A	12/08/2010 16:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103410008A	12/07/2010 16:00	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103420019A	12/09/2010 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400028A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103420006A	12/14/2010 01:29	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400012A	12/08/2010 17:52	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420001A	12/08/2010 15:46	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410017A	12/11/2010 16:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103420006A	12/08/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410017A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420001A	12/08/2010 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400012A	12/08/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103415708003	12/08/2010 23:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103415708003	12/10/2010 12:10	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103415708003	12/08/2010 23:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103415708003	12/08/2010 23:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103415708003	12/08/2010 23:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103415708003	12/08/2010 23:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103415708003	12/08/2010 23:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103415708003	12/08/2010 23:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103415708003	12/08/2010 23:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103415708003	12/08/2010 23:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103415708003	12/08/2010 23:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103415708003	12/10/2010 12:10	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103415708003	12/10/2010 12:14	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103415708003	12/10/2010 12:10	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2

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

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

Sample Description: SL-031-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-9.0-10.0

LLI Sample # SW 6156144
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:44

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S09 SDG#: DE028-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103411026001D	12/09/2010 12:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103411026001C	12/09/2010 12:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103411026001B	12/09/2010 12:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103411026001A	12/09/2010 12:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103415711003	12/08/2010 07:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103415708003	12/07/2010 21:11	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103411026001	12/07/2010 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103415711003	12/07/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201A	12/15/2010 16:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201A	12/15/2010 16:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 03:32	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 08:43	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202B	12/08/2010 18:21	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10348348201A	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202B	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103A	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403A	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401A	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: SL-031-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-4.0-5.0

LLI Sample # SW 6156145
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S04 SDG#: DE028-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1 U	7.1	8.5		0.95
06192	Benzene	71-43-2	0.11 U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.35 U	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43 U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3 U	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13 U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.35 U	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53 U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75 U	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12 U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.53 U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.5		0.95
06192	Methylene Chloride	75-09-2	0.50 J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.3		0.95

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Sample Description: SL-031-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-4.0-5.0

LLI Sample # SW 6156145
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S04 SDG#: DE028-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.11 J	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35 U	0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18 U	0.18	4.3		0.95
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6 U	4.6	14		20.53
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.8 U	18.8	37.5		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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Sample Description: SL-031-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-4.0-5.0

LLI Sample # SW 6156145
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S04 SDG#: DE028-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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	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	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	1.4	J 0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	5.0	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.7	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J 0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.4	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	7.1	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.94	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	6.8	U 6.8	20		1
10138	Fluoranthene	206-44-0	0.89	J 0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U 0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	J 0.75	1.9		1

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Sample Description: SL-031-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-4.0-5.0

LLI Sample # SW 6156145
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S04 SDG#: DE028-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.75 U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75 U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75 U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75 U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20		1
10138	Phenanthrene	85-01-8	2.3	0.75	1.9		1
10138	Pyrene	129-00-0	3.6	0.75	1.9		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	0.9		20.66
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U 84	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U 56	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	92	J 56	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	56	U 56	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	56	U 56	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	420	1000000 0	1
10132	Nitrobenzene	98-95-3	56	U 56	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,400	1000000 0	1
10132	RDX	121-82-4	70	U 70	170	1000000 0	1
10132	Tetryl	479-45-8	86	U 86	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U 56	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U 56	170	1000000 0	1

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Sample Description: SL-031-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-4.0-5.0

LLI Sample # SW 6156145
LLI Group # 1223933
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Project Name: SSFL Area IV Collocated Soil Sampling

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31S04 SDG#: DE028-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	1,200	J 680	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.90 U	0.90	2.7		2
10199	EFH (C15-C20)	n.a.	0.90 U	0.90	2.7		2
10199	EFH (C21-C30)	n.a.	20	0.90	2.7		2
10199	EFH (C30 - C40)	n.a.	66	0.90	2.7		2
10199	EFH (C8-C11)	n.a.	0.90 U	0.90	2.7		2
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	110	560		1
10501	Isopropanol	67-63-0	110 U	110	560		1
10501	Methanol	67-56-1	110 U	110	560		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6 U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6 U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6 U	5.6	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	3.9		1
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,600	5.55	22.1		1
07914	Boron	7440-42-8	2.85 J	0.983	5.52		1
01650	Calcium	7440-70-2	2,170	6.77	22.1		1
01654	Iron	7439-89-6	18,600	5.20	22.1		1

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Sample Description: SL-031-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-4.0-5.0

LLI Sample # SW 6156145
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S04 SDG#: DE028-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	16.9	0.24	2.2		1
01657	Magnesium	7439-95-4	3,590	2.80	11.0		1
06958	Manganese	7439-96-5	302	0.0861	0.552		1
10145	Phosphorus	7723-14-0	491	0.618	11.0		1
01662	Potassium	7440-09-7	3,690	19.9	55.2		1
01667	Sodium	7440-23-5	92.4 J	41.2	110		1
07968	Strontium	7440-24-6	19.2	0.0685	0.552		1
06969	Tin	7440-31-5	2.97 J	1.10	11.0		1
06970	Titanium	7440-32-6	1,150	2.10	5.52		5
10146	Zirconium	7440-67-7	1.51 J	0.927	5.52		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.126 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	4.97	0.0656	0.437		2
06126	Barium	7440-39-3	163	0.118	0.437		2
06127	Beryllium	7440-41-7	0.646	0.0175	0.109		2
06128	Cadmium	7440-43-9	0.238	0.0394	0.109		2
06131	Chromium	7440-47-3	22.9	0.131	0.437		2
06132	Cobalt	7440-48-4	7.26	0.0219	0.109		2
06133	Copper	7440-50-8	14.8	0.0722	0.437		2
06135	Lead	7439-92-1	6.87	0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.826	0.0547	0.109		2
06139	Nickel	7440-02-0	14.9	0.109	0.437		2
06141	Selenium	7782-49-2	0.135 J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0345 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.246	0.0328	0.109		2
06148	Vanadium	7440-62-2	44.4	0.0241	0.109		2
06149	Zinc	7440-66-6	81.0	0.612	3.28		2
		SW-846 7471A	mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90 U	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	15.7	0.90	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	16.3 J	10.1	33.8		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44 J	0.23	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.54		1

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Sample Description: SL-031-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-4.0-5.0

LLI Sample # SW 6156145
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S04 SDG#: DE028-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	509	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	Std. Units	
00394	22a pH by 9045C	n.a.	6.55	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	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-031-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	B103421AA	12/08/2010 04:34	Holly Berry	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402BA	12/06/2010 19:01	Jason M Long	20.53
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033823180	12/04/2010 15:21	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10341SLB026	12/22/2010 13:32	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10341SLH026	12/14/2010 04:58	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10342SLD026	12/10/2010 02:48	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10341SLB026	12/07/2010 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10342SLD026	12/08/2010 16:50	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10341SLH026	12/07/2010 23:30	Patricia L Foreman	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-031-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-4.0-5.0

LLI Sample # SW 6156145
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S04 SDG#: DE028-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10340B34A	12/07/2010 21:09	Marie D John	20.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:21	Christopher D Weeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 11:04	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400028A	12/09/2010 00:00	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103410008A	12/08/2010 16:19	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103410008A	12/07/2010 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400028A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103420006A	12/14/2010 16:05	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400012A	12/08/2010 18:06	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420001A	12/08/2010 16:02	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410017A	12/11/2010 16:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103420006A	12/08/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410017A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420001A	12/08/2010 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400012A	12/08/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103415708003	12/08/2010 23:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103415708003	12/10/2010 12:18	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103415708003	12/08/2010 23:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103415708003	12/08/2010 23:24	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103415708003	12/08/2010 23:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103415708003	12/08/2010 23:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103415708003	12/08/2010 23:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103415708003	12/08/2010 23:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103415708003	12/08/2010 23:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103415708003	12/08/2010 23:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103415708003	12/08/2010 23:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103415708003	12/10/2010 12:18	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103415708003	12/10/2010 12:22	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103415708003	12/10/2010 12:18	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103411026001D	12/09/2010 12:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2

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Sample Description: SL-031-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5C-SB-4.0-5.0

LLI Sample # SW 6156145
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 12:40

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

31S04 SDG#: DE028-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	103411026001C	12/09/2010 12:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103411026001B	12/09/2010 12:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103411026001A	12/09/2010 20:24	David K Beck	2
06148	Vanadium	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103411026001A	12/09/2010 12:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103415711003	12/08/2010 07:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103415708003	12/07/2010 21:11	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103411026001	12/07/2010 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103415711003	12/07/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201A	12/15/2010 16:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201A	12/15/2010 16:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 03:56	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10355243201A	12/27/2010 09:03	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202B	12/08/2010 18:22	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10348348201A	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202B	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103B	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403B	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401A	12/20/2010 16:51	Scott W Freisher	1

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Sample Description: SL-032-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156146
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5 U	7.5	8.9		1.03
06192	Benzene	71-43-2	0.11 U	0.11	4.5		1.03
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.5		1.03
06192	Bromochloromethane	74-97-5	0.37 U	0.37	4.5		1.03
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.5		1.03
06192	Bromoform	75-25-2	0.45 U	0.45	4.5		1.03
06192	Bromomethane	74-83-9	0.28 U	0.28	4.5		1.03
06192	2-Butanone	78-93-3	1.4 U	1.4	8.9		1.03
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.5		1.03
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.5		1.03
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.5		1.03
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.5		1.03
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.5		1.03
06192	Chloroethane	75-00-3	0.15 U	0.15	4.5		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34 U	0.34	4.5		1.03
06192	Chloroform	67-66-3	0.13 U	0.13	4.5		1.03
06192	Chloromethane	74-87-3	0.37 U	0.37	4.5		1.03
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.5		1.03
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.5		1.03
06192	Chlorotrifluoroethene	79-38-9	0.56 U	0.56	5.6		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78 U	0.78	4.5		1.03
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.5		1.03
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.5		1.03
06192	Dibromomethane	74-95-3	0.27 U	0.27	4.5		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	4.5		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.5		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.5		1.03
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.5		1.03
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.5		1.03
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.5		1.03
06192	1,1-Dichloroethene	75-35-4	0.44 U	0.44	4.5		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.5		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.5		1.03
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.5		1.03
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.5		1.03
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.5		1.03
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.5		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.5		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.5		1.03
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.5		1.03
06192	Freon 113	76-13-1	0.12 U	0.12	4.5		1.03
06192	Freon 133a	75-88-7	0.56 U	0.56	5.6		1.03
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.5		1.03
06192	2-Hexanone	591-78-6	1.8 U	1.8	8.9		1.03
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.5		1.03
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.5		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.5		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.44 U	0.44	8.9		1.03
06192	Methylene Chloride	75-09-2	0.68 U	0.27	4.5		1.03
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.5		1.03

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Sample Description: SL-032-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156146
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.5		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.5		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26 U	0.26	4.5		1.03
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.5		1.03
06192	Toluene	108-88-3	0.09 U	0.09	4.5		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.5		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.5		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.5		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.30 U	0.30	4.5		1.03
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.5		1.03
06192	Trichlorofluoromethane	75-69-4	0.32 U	0.32	4.5		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.37 U	0.37	4.5		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.45 U	0.45	4.5		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.5		1.03
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.5		1.03
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.5		1.03
06192	o-Xylene	95-47-6	0.19 U	0.19	4.5		1.03
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		24.32
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.1 U	18.1	36.2		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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Sample Description: SL-032-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156146
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	72	U 72	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	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

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Sample Description: SL-032-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156146
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.72 U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72 U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72 U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0		23.36
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81 U	81	160	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	330	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	330	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1000000	1
10132	HMX	2691-41-0	140 U	140	410	1000000	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,300	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1000000	1
10132	3-Nitrotoluene	99-08-1	140 U	140	160	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,300	1000000	1
10132	RDX	121-82-4	68 U	68	160	1000000	1
10132	Tetryl	479-45-8	83 U	83	160	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54 U	54	160	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54 U	54	160	1000000	1

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SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156146
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Project Name: SSFL Area IV Collocated Soil Sampling

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	650 U	650	1,600		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43 U	0.43	1.3		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 J	110	540		1
10501	Isopropanol	67-63-0	110 U	110	540		1
10501	Methanol	67-56-1	110 U	110	540		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4 U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4 U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4 U	5.4	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6 U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6 U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6 U	1.6	3.8		1
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,000	5.25	20.9		1
07914	Boron	7440-42-8	0.928 U	0.928	5.21		1
01650	Calcium	7440-70-2	3,030	6.39	20.9		1
01654	Iron	7439-89-6	24,900	4.91	20.9		1

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Sample Description: SL-032-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156146
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	28.1	0.23	2.1		1
01657	Magnesium	7439-95-4	4,960	2.65	10.4		1
06958	Manganese	7439-96-5	155	0.0813	0.521		1
10145	Phosphorus	7723-14-0	136	0.584	10.4		1
01662	Potassium	7440-09-7	1,970	18.8	52.1		1
01667	Sodium	7440-23-5	594	38.9	104		1
07968	Strontium	7440-24-6	24.4	0.0647	0.521		1
06969	Tin	7440-31-5	3.20 J	1.04	10.4		1
06970	Titanium	7440-32-6	1,320	1.98	5.21		5
10146	Zirconium	7440-67-7	1.30 J	0.876	5.21		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.140 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	6.97	0.0644	0.430		2
06126	Barium	7440-39-3	132	0.116	0.430		2
06127	Beryllium	7440-41-7	0.961	0.0172	0.107		2
06128	Cadmium	7440-43-9	0.0479 J	0.0387	0.107		2
06131	Chromium	7440-47-3	23.9	0.129	0.430		2
06132	Cobalt	7440-48-4	6.69	0.0215	0.107		2
06133	Copper	7440-50-8	8.82	0.0709	0.430		2
06135	Lead	7439-92-1	7.15	0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.727	0.0537	0.107		2
06139	Nickel	7440-02-0	10.8	0.107	0.430		2
06141	Selenium	7782-49-2	0.177 J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0253 J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.376	0.0322	0.107		2
06148	Vanadium	7440-62-2	41.0	0.0236	0.107		2
06149	Zinc	7440-66-6	47.7	0.601	3.22		2
		SW-846 7471A	mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	0.87	1.6		1
		EPA 314.0	ug/kg	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	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.54		1

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SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156146
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	435	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.16	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids 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.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-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	B103421AA	12/08/2010 04:56	Holly Berry	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402BA	12/06/2010 19:20	Jason M Long	24.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033823180	12/04/2010 15:25	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10341SLB026	12/22/2010 11:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10341SLH026	12/14/2010 02:21	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10342SLD026	12/09/2010 23:36	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10341SLB026	12/07/2010 14:00	Olivia I Santiago	1
10479	BNM Soil Extraction SIM	SW-846 3550B	1	10342SLD026	12/08/2010 16:50	Joella L Rice	1
00381	BNM Soil Sonication	SW-846 3550B	1	10341SLH026	12/07/2010 23:30	Patricia L Foreman	1

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Laboratory Sample Analysis Record

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05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10340B34A	12/07/2010 21:45	Marie D John	23.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:24	Christopher D Weeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 11:46	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400028A	12/09/2010 00:09	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103410008A	12/08/2010 16:37	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103410008A	12/07/2010 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400028A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103420006A	12/13/2010 22:59	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400012A	12/08/2010 18:21	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420001A	12/08/2010 17:38	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410017A	12/11/2010 11:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103420006A	12/08/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410017A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420001A	12/08/2010 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400012A	12/08/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103415708003	12/08/2010 22:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103415708003	12/10/2010 10:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103415708003	12/08/2010 22:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103415708003	12/08/2010 22:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103415708003	12/08/2010 22:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103415708003	12/08/2010 22:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103415708003	12/08/2010 22:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103415708003	12/08/2010 22:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103415708003	12/08/2010 22:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103415708003	12/08/2010 22:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103415708003	12/08/2010 22:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103415708003	12/10/2010 10:58	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103415708003	12/13/2010 09:37	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103415708003	12/10/2010 10:58	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103411026001D	12/09/2010 11:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2

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

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

Sample Description: SL-032-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156146
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	103411026001C	12/09/2010 11:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103411026001B	12/09/2010 11:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103411026001A	12/09/2010 11:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103415711003	12/08/2010 07:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103415708003	12/07/2010 21:11	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103411026001	12/07/2010 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103415711003	12/07/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201B	12/12/2010 04:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201B	12/12/2010 04:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 00:20	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 09:09	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202B	12/08/2010 18:23	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201B	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202B	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103B	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403B	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401A	12/20/2010 16:51	Scott W Freisher	1

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

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Sample Description: SL-032-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156147
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	7.5	8.9		1.03
06192	Benzene	71-43-2	26	0.11	4.5		1.03
06192	Bromobenzene	108-86-1	24	0.14	4.5		1.03
06192	Bromochloromethane	74-97-5	25	0.37	4.5		1.03
06192	Bromodichloromethane	75-27-4	24	0.09	4.5		1.03
06192	Bromoform	75-25-2	23	0.45	4.5		1.03
06192	Bromomethane	74-83-9	19	0.28	4.5		1.03
06192	2-Butanone	78-93-3	140	1.4	8.9		1.03
06192	n-Butylbenzene	104-51-8	25	0.13	4.5		1.03
06192	sec-Butylbenzene	135-98-8	26	0.07	4.5		1.03
06192	tert-Butylbenzene	98-06-6	24	0.18	4.5		1.03
06192	Carbon Tetrachloride	56-23-5	27	0.16	4.5		1.03
06192	Chlorobenzene	108-90-7	24	0.12	4.5		1.03
06192	Chloroethane	75-00-3	19	0.14	4.5		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	21	0.33	4.5		1.03
06192	Chloroform	67-66-3	26	0.13	4.5		1.03
06192	Chloromethane	74-87-3	20	0.37	4.5		1.03
06192	2-Chlorotoluene	95-49-8	24	0.16	4.5		1.03
06192	4-Chlorotoluene	106-43-4	25	0.16	4.5		1.03
06192	Chlorotrifluoroethene	79-38-9	37	0.57	5.7		1.06
06192	1,2-Dibromo-3-chloropropane	96-12-8	20	0.78	4.5		1.03
06192	Dibromochloromethane	124-48-1	23	0.22	4.5		1.03
06192	1,2-Dibromoethane	106-93-4	22	0.19	4.5		1.03
06192	Dibromomethane	74-95-3	24	0.27	4.5		1.03
06192	1,2-Dichlorobenzene	95-50-1	24	0.1	4.5		1.03
06192	1,3-Dichlorobenzene	541-73-1	24	0.13	4.5		1.03
06192	1,4-Dichlorobenzene	106-46-7	24	0.18	4.5		1.03
06192	Dichlorodifluoromethane	75-71-8	16	0.13	4.5		1.03
06192	1,1-Dichloroethane	75-34-3	26	0.11	4.5		1.03
06192	1,2-Dichloroethane	107-06-2	25	0.17	4.5		1.03
06192	1,1-Dichloroethene	75-35-4	27	0.43	4.5		1.03
06192	cis-1,2-Dichloroethene	156-59-2	26	0.21	4.5		1.03
06192	trans-1,2-Dichloroethene	156-60-5	26	0.13	4.5		1.03
06192	1,2-Dichloropropane	78-87-5	24	0.19	4.5		1.03
06192	1,3-Dichloropropane	142-28-9	23	0.09	4.5		1.03
06192	2,2-Dichloropropane	594-20-7	26	0.19	4.5		1.03
06192	1,1-Dichloropropene	563-58-6	26	0.14	4.5		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	23	0.18	4.5		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	22	0.19	4.5		1.03
06192	Ethylbenzene	100-41-4	25	0.07	4.5		1.03
06192	Freon 113	76-13-1	24	0.12	4.5		1.03
06192	Freon 133a	75-88-7	25	0.57	5.7		1.06
06192	Hexachlorobutadiene	87-68-3	24	0.16	4.5		1.03
06192	2-Hexanone	591-78-6	71	1.8	8.9		1.03
06192	Isopropylbenzene	98-82-8	26	0.07	4.5		1.03
06192	p-Isopropyltoluene	99-87-6	25	0.12	4.5		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	22	0.23	4.5		1.03
06192	4-Methyl-2-pentanone	108-10-1	79	0.43	8.9		1.03
06192	Methylene Chloride	75-09-2	24	0.27	4.5		1.03
06192	n-Propylbenzene	103-65-1	26	0.08	4.5		1.03

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Sample Description: SL-032-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156147
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	25	0.11	4.5		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	25	0.12	4.5		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	21	0.26	4.5		1.03
06192	Tetrachloroethene	127-18-4	27	0.22	4.5		1.03
06192	Toluene	108-88-3	25	0.09	4.5		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	23	0.16	4.5		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	23	0.20	4.5		1.03
06192	1,1,1-Trichloroethane	71-55-6	26	0.22	4.5		1.03
06192	1,1,2-Trichloroethane	79-00-5	23	0.30	4.5		1.03
06192	Trichloroethene	79-01-6	25	0.17	4.5		1.03
06192	Trichlorofluoromethane	75-69-4	22	0.32	4.5		1.03
06192	1,2,3-Trichloropropane	96-18-4	22	0.37	4.5		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	25	0.45	4.5		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	25	0.11	4.5		1.03
06192	Vinyl Chloride	75-01-4	19	0.22	4.5		1.03
06192	m+p-Xylene	179601-23-1	50	0.19	4.5		1.03
06192	o-Xylene	95-47-6	24	0.19	4.5		1.03
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	110	5.2	16		23.9
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	861	18.1	36.2		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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	1,300	180	540		1
04688	Anthracene	120-12-7	1,800	18	180		1
04688	Benzidine	92-87-5	3,500	J 1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,800	18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,900	18	180		1
04688	Benzoic acid	65-85-0	1,100	180	540		1
04688	Benzyl alcohol	100-51-6	1,700	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700	18	180		1
04688	Butylbenzylphthalate	85-68-7	1,800	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700	18	180		1
04688	Carbazole	86-74-8	1,700	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	36	180		1
04688	4-Chloroaniline	106-47-8	1,200	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	1,400	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,700	18	180		1
04688	2-Chlorophenol	95-57-8	1,800	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	36	180		1

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Sample Description: SL-032-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156147
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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	1,300	110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,800	18	180		1
04688	Diethylphthalate	84-66-2	1,700	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700	36	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000	36	180		1
04688	Dimethylphthalate	131-11-3	1,700	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400	180	540		1
04688	2,4-Dinitrophenol	51-28-5	1,900	J 720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	18	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	1,800	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,600	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,700	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
04688	1-Methylnaphthalene	90-12-0	1,800	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,700	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	1,600	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,400	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	18	180		1
04688	Pentachlorophenol	87-86-5	1,700	180	540		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,600	18	180		1

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Sample Description: SL-032-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156147
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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	1,800	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.72	1.8		1
10138	Acenaphthylene	208-96-8	32	0.36	1.8		1
10138	Anthracene	120-12-7	32	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	33	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	31	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	34	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	31	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	32	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	39	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	32	6.5	20		1
10138	Chrysene	218-01-9	34	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	29	0.72	1.8		1
10138	Diethylphthalate	84-66-2	34	6.5	20		1
10138	Dimethylphthalate	131-11-3	35	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40	6.5	20		1
10138	Fluoranthene	206-44-0	34	0.72	1.8		1
10138	Fluorene	86-73-7	33	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	33	0.72	1.8		1
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	32	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	40	6.5	20		1
10138	Phenanthrene	85-01-8	32	0.72	1.8		1
10138	Pyrene	129-00-0	33	0.72	1.8		1
GC Volatiles	TPH GRO	SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
	mod						
05551	9a TPH by EPA 8015B Gas	n.a.	10	0.2	1.1		25.77
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,900	81	160	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,900	54	160	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	2,800	54	160	1000000 0	1

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Analysis Report

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Page 5 of 10

Sample Description: SL-032-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156147
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
10132	2,4-Dinitrotoluene	121-14-2	ug/kg	ug/kg	ug/kg	ug/kg	
			2,800	54	160	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,900	54	160	1000000	1
10132	HMX	2691-41-0	2,700	140	410	1000000	1
10132	Nitrobenzene	98-95-3	2,800	54	160	1000000	1
10132	Nitroglycerin	55-63-0	61,000	1,100	3,300	1000000	1
10132	2-Nitrotoluene	88-72-2	2,900	110	160	1000000	1
10132	3-Nitrotoluene	99-08-1	2,900	140	160	1000000	1
10132	4-Nitrotoluene	99-99-0	2,800	110	160	1000000	1
10132	PETN	78-11-5	70,000	1,100	3,300	1000000	1
10132	RDX	121-82-4	2,600	68	160	1000000	1
10132	Tetryl	479-45-8	2,900	83	160	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,000	54	160	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,900	54	160	1000000	1
HPLC Organics							
04173	17a Formaldehyde by	50-00-0	ug/kg	ug/kg	ug/kg	ug/kg	
	8315A		5,600	650	1,600		1
Pesticides/PCBs							
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	15		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	16		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.							
GC Extractable TPH							
10199	EFH (C12-C14)	n.a.	mg/kg	mg/kg	mg/kg	mg/kg	
			0.78	J	0.43	1.3	1

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Sample Description: SL-032-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156147
LLI Group # 1223933
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Project Name: SSFL Area IV Collocated Soil Sampling

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32S04 SDG#: DE028-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C15-C20)	n.a.	1.4	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	2.5	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	2.6	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.56 J	0.43	1.3		1
GC Miscellaneous		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,400	110	540		1
10501	Isopropanol	67-63-0	2,500	110	540		1
10501	Methanol	67-56-1	2,400	110	540		1
GC Miscellaneous		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	170	5.4	14		1
08283	Ethylene glycol	107-21-1	230	5.4	14		1
08283	Propylene glycol	57-55-6	200	5.4	14		1
Terphenyls		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.9 J	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.9 J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.8 J	1.6	3.8		1
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,800	5.40	21.5		1
07914	Boron	7440-42-8	197	0.956	5.37		1
01650	Calcium	7440-70-2	3,490	6.58	21.5		1
01654	Iron	7439-89-6	26,100	5.06	21.5		1
01656	Lithium	7439-93-2	135	0.24	2.1		1
01657	Magnesium	7439-95-4	5,210	2.73	10.7		1
06958	Manganese	7439-96-5	203	0.0838	0.537		1
10145	Phosphorus	7723-14-0	251	0.601	10.7		1
01662	Potassium	7440-09-7	3,370	19.3	53.7		1
01667	Sodium	7440-23-5	1,580	40.1	107		1
07968	Strontium	7440-24-6	126	0.0666	0.537		1
06969	Tin	7440-31-5	425	1.07	10.7		1
06970	Titanium	7440-32-6	1,700	2.04	5.37		5
10146	Zirconium	7440-67-7	111	0.902	5.37		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.823	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	11.0	0.0651	0.434		2
06126	Barium	7440-39-3	164	0.117	0.434		2
06127	Beryllium	7440-41-7	2.00	0.0174	0.108		2
06128	Cadmium	7440-43-9	1.55	0.0390	0.108		2

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Sample Description: SL-032-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156147
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals			SW-846 6020	mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	40.9	0.130	0.434		2
06132	Cobalt	7440-48-4	68.0	0.0217	0.108		2
06133	Copper	7440-50-8	22.9	0.0716	0.434		2
06135	Lead	7439-92-1	13.2	0.0113	0.217		2
06138	Molybdenum	7439-98-7	14.2	0.0542	0.108		2
06139	Nickel	7440-02-0	25.8	0.108	0.434		2
06141	Selenium	7782-49-2	2.84	0.0434	0.434		2
06142	Silver	7440-22-4	14.6	0.0130	0.108		2
06145	Thallium	7440-28-0	0.988	0.0325	0.108		2
06148	Vanadium	7440-62-2	63.3	0.0239	0.108		2
06149	Zinc	7440-66-6	68.6	0.607	3.25		2
			SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.169	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	23.4	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	17.6	0.87	1.6		1
			EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	460	9.8	32.5		1
			SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	41.1	1.1	5.4		5
			SW-846 9012B	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	5.7	0.19	0.53		1
Wet Chemistry			EPA 160.3 modified	%	%	%	
11625	28a Total Solids by 160.3	n.a.	7.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-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	B103421AA	12/08/2010 05:18	Holly Berry	1.03

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Sample Description: SL-032-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156147
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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	B103421AA	12/08/2010 06:03	Holly Berry	1.06
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402BA	12/06/2010 19:40	Jason M Long	23.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:30	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033823180	12/04/2010 15:30	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10341SLB026	12/22/2010 11:48	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10341SLH026	12/14/2010 02:47	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10342SLD026	12/10/2010 00:09	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10341SLB026	12/07/2010 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10342SLD026	12/08/2010 16:50	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10341SLH026	12/07/2010 23:30	Patricia L Foreman	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10340B34A	12/07/2010 22:22	Marie D John	25.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:29	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 12:28	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400028A	12/09/2010 00:19	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103410008A	12/08/2010 16:56	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103410008A	12/07/2010 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400028A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103420006A	12/13/2010 23:24	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400012A	12/08/2010 18:35	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420001A	12/08/2010 17:54	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410017A	12/11/2010 12:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103420006A	12/08/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410017A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420001A	12/08/2010 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400012A	12/08/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103415708003	12/08/2010 22:54	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103415708003	12/10/2010 11:09	Eric L Eby	1

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Sample Description: SL-032-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156147
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103415708003	12/08/2010 22:54	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103415708003	12/08/2010 22:54	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103415708003	12/08/2010 22:54	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103415708003	12/08/2010 22:54	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103415708003	12/08/2010 22:54	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103415708003	12/08/2010 22:54	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103415708003	12/08/2010 22:54	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103415708003	12/08/2010 22:54	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103415708003	12/08/2010 22:54	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103415708003	12/10/2010 11:09	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103415708003	12/13/2010 09:48	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103415708003	12/10/2010 11:09	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103411026001D	12/09/2010 12:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103411026001C	12/09/2010 12:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103411026001B	12/09/2010 12:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103411026001A	12/09/2010 12:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103415711003	12/08/2010 07:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103415708003	12/07/2010 21:11	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103411026001	12/07/2010 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103415711003	12/07/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201B	12/12/2010 04:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201B	12/12/2010 04:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 01:08	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 09:35	Nicole M Kepley	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202B	12/08/2010 18:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201B	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202B	12/08/2010 10:20	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1

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Analysis Report

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Sample Description: SL-032-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156147
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401A	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: SL-032-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156148
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	140	6.9	8.2		0.95
06192	Benzene	71-43-2	24	0.10	4.1		0.95
06192	Bromobenzene	108-86-1	22	0.13	4.1		0.95
06192	Bromochloromethane	74-97-5	22	0.34	4.1		0.95
06192	Bromodichloromethane	75-27-4	22	0.08	4.1		0.95
06192	Bromoform	75-25-2	21	0.41	4.1		0.95
06192	Bromomethane	74-83-9	16	0.26	4.1		0.95
06192	2-Butanone	78-93-3	130	1.3	8.2		0.95
06192	n-Butylbenzene	104-51-8	22	0.12	4.1		0.95
06192	sec-Butylbenzene	135-98-8	23	0.06	4.1		0.95
06192	tert-Butylbenzene	98-06-6	22	0.16	4.1		0.95
06192	Carbon Tetrachloride	56-23-5	24	0.14	4.1		0.95
06192	Chlorobenzene	108-90-7	22	0.11	4.1		0.95
06192	Chloroethane	75-00-3	17	0.13	4.1		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	20	0.31	4.1		0.95
06192	Chloroform	67-66-3	23	0.12	4.1		0.95
06192	Chloromethane	74-87-3	18	0.34	4.1		0.95
06192	2-Chlorotoluene	95-49-8	22	0.14	4.1		0.95
06192	4-Chlorotoluene	106-43-4	22	0.14	4.1		0.95
06192	Chlorotrifluoroethene	79-38-9	41	0.64	6.4		1.17
06192	1,2-Dibromo-3-chloropropane	96-12-8	19	0.72	4.1		0.95
06192	Dibromochloromethane	124-48-1	21	0.20	4.1		0.95
06192	1,2-Dibromoethane	106-93-4	21	0.17	4.1		0.95
06192	Dibromomethane	74-95-3	22	0.25	4.1		0.95
06192	1,2-Dichlorobenzene	95-50-1	22	0.09	4.1		0.95
06192	1,3-Dichlorobenzene	541-73-1	22	0.12	4.1		0.95
06192	1,4-Dichlorobenzene	106-46-7	22	0.16	4.1		0.95
06192	Dichlorodifluoromethane	75-71-8	13	0.12	4.1		0.95
06192	1,1-Dichloroethane	75-34-3	23	0.10	4.1		0.95
06192	1,2-Dichloroethane	107-06-2	22	0.15	4.1		0.95
06192	1,1-Dichloroethene	75-35-4	24	0.40	4.1		0.95
06192	cis-1,2-Dichloroethene	156-59-2	23	0.20	4.1		0.95
06192	trans-1,2-Dichloroethene	156-60-5	24	0.12	4.1		0.95
06192	1,2-Dichloropropane	78-87-5	22	0.17	4.1		0.95
06192	1,3-Dichloropropane	142-28-9	22	0.08	4.1		0.95
06192	2,2-Dichloropropane	594-20-7	23	0.17	4.1		0.95
06192	1,1-Dichloropropene	563-58-6	24	0.13	4.1		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.16	4.1		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	21	0.17	4.1		0.95
06192	Ethylbenzene	100-41-4	23	0.06	4.1		0.95
06192	Freon 113	76-13-1	22	0.11	4.1		0.95
06192	Freon 133a	75-88-7	28	0.64	6.4		1.17
06192	Hexachlorobutadiene	87-68-3	21	0.14	4.1		0.95
06192	2-Hexanone	591-78-6	69	1.6	8.2		0.95
06192	Isopropylbenzene	98-82-8	23	0.06	4.1		0.95
06192	p-Isopropyltoluene	99-87-6	23	0.11	4.1		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.21	4.1		0.95
06192	4-Methyl-2-pentanone	108-10-1	74	0.40	8.2		0.95
06192	Methylene Chloride	75-09-2	22	0.25	4.1		0.95
06192	n-Propylbenzene	103-65-1	23	0.07	4.1		0.95

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Sample Description: SL-032-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156148
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	22	0.10	4.1		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	22	0.11	4.1		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	20	0.24	4.1		0.95
06192	Tetrachloroethene	127-18-4	25	0.20	4.1		0.95
06192	Toluene	108-88-3	23	0.08	4.1		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	21	0.14	4.1		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	21	0.18	4.1		0.95
06192	1,1,1-Trichloroethane	71-55-6	24	0.20	4.1		0.95
06192	1,1,2-Trichloroethane	79-00-5	21	0.28	4.1		0.95
06192	Trichloroethene	79-01-6	23	0.15	4.1		0.95
06192	Trichlorofluoromethane	75-69-4	19	0.30	4.1		0.95
06192	1,2,3-Trichloropropane	96-18-4	20	0.34	4.1		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	22	0.41	4.1		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	22	0.10	4.1		0.95
06192	Vinyl Chloride	75-01-4	18	0.20	4.1		0.95
06192	m+p-Xylene	179601-23-1	45	0.17	4.1		0.95
06192	o-Xylene	95-47-6	22	0.17	4.1		0.95
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	110	5.2	16		24.08
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	840	18.1	36.2		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700	36	180		1
04688	Acenaphthylene	208-96-8	1,700	36	180		1
04688	Aniline	62-53-3	1,200	180	540		1
04688	Anthracene	120-12-7	1,700	36	180		1
04688	Benzidine	92-87-5	3,500	J 1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,700	36	180		1
04688	Benzo(a)pyrene	50-32-8	1,800	36	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	36	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	36	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,700	36	180		1
04688	Benzoic acid	65-85-0	1,200	180	540		1
04688	Benzyl alcohol	100-51-6	1,600	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600	36	180		1
04688	Butylbenzylphthalate	85-68-7	1,700	72	180		1
04688	Di-n-butylphthalate	84-74-2	1,700	72	180		1
04688	Carbazole	86-74-8	1,700	36	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	72	180		1
04688	4-Chloroaniline	106-47-8	1,200	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600	36	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500	36	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400	36	180		1
04688	2-Chloronaphthalene	91-58-7	1,700	36	180		1
04688	2-Chlorophenol	95-57-8	1,700	36	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	36	180		1

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Sample Description: SL-032-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156148
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,700	36	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	36	180		1
04688	Dibenzofuran	132-64-9	1,700	36	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,500	36	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	36	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	36	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,800	36	180		1
04688	Diethylphthalate	84-66-2	1,700	72	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700	72	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000	36	180		1
04688	Dimethylphthalate	131-11-3	1,700	72	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400	180	540		1
04688	2,4-Dinitrophenol	51-28-5	1,900	J 720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	72	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	36	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600	36	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	72	360		1
04688	Fluoranthene	206-44-0	1,700	36	180		1
04688	Fluorene	86-73-7	1,800	36	180		1
04688	Hexachlorobenzene	118-74-1	1,700	36	180		1
04688	Hexachlorobutadiene	87-68-3	1,500	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,500	180	540		1
04688	Hexachloroethane	67-72-1	1,400	36	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	36	180		1
04688	Isophorone	78-59-1	1,600	36	180		1
04688	1-Methylnaphthalene	90-12-0	1,700	36	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	36	180		1
04688	2-Methylphenol	95-48-7	1,600	72	180		1
04688	4-Methylphenol	106-44-5	1,600	72	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	36	180		1
04688	2-Nitroaniline	88-74-4	1,800	36	180		1
04688	3-Nitroaniline	99-09-2	1,700	72	180		1
04688	4-Nitroaniline	100-01-6	1,300	72	180		1
04688	Nitrobenzene	98-95-3	1,600	36	180		1
04688	2-Nitrophenol	88-75-5	1,700	36	180		1
04688	4-Nitrophenol	100-02-7	1,400	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	72	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	36	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	36	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	72	180		1
04688	Pentachlorophenol	87-86-5	1,500	180	540		1
04688	Phenanthrene	85-01-8	1,700	36	180		1
04688	Phenol	108-95-2	1,500	36	180		1

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Sample Description: SL-032-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156148
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Pyrene	129-00-0	1,700	36	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	36	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	72	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	31	0.72	1.8		1
10138	Acenaphthylene	208-96-8	31	0.36	1.8		1
10138	Anthracene	120-12-7	31	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	31	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	29	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	33	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	30	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	31	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	38	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	32	6.5	20		1
10138	Chrysene	218-01-9	32	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	29	0.72	1.8		1
10138	Diethylphthalate	84-66-2	34	6.5	20		1
10138	Dimethylphthalate	131-11-3	34	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39	6.5	20		1
10138	Fluoranthene	206-44-0	32	0.72	1.8		1
10138	Fluorene	86-73-7	32	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	32	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	30	0.72	1.8		1
10138	Naphthalene	91-20-3	32	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	32	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	39	6.5	20		1
10138	Phenanthrene	85-01-8	31	0.72	1.8		1
10138	Pyrene	129-00-0	32	0.72	1.8		1
GC Volatiles	TPH GRO	SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
	mod						
05551	9a TPH by EPA 8015B Gas	n.a.	8.3	0.2	1.1		24.27
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,900	81	160	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,900	54	160	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	2,800	54	160	1000000 0	1

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Sample Description: SL-032-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156148
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
10132	2,4-Dinitrotoluene	121-14-2	ug/kg	ug/kg	ug/kg	ug/kg	
			2,800	54	160	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,900	54	160	1000000	1
10132	HMX	2691-41-0	2,600	140	410	1000000	1
10132	Nitrobenzene	98-95-3	2,800	54	160	1000000	1
10132	Nitroglycerin	55-63-0	61,000	1,100	3,300	1000000	1
10132	2-Nitrotoluene	88-72-2	2,900	110	160	1000000	1
10132	3-Nitrotoluene	99-08-1	2,900	140	160	1000000	1
10132	4-Nitrotoluene	99-99-0	2,900	110	160	1000000	1
10132	PETN	78-11-5	70,000	1,100	3,300	1000000	1
10132	RDX	121-82-4	2,600	68	160	1000000	1
10132	Tetryl	479-45-8	2,700	83	160	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,000	54	160	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,800	54	160	1000000	1
HPLC Organics							
04173	17a Formaldehyde by	50-00-0	ug/kg	ug/kg	ug/kg	ug/kg	
	8315A		5,500	650	1,600		1
Pesticides/PCBs							
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	14		0.36	1.8	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	15		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.							
GC Extractable TPH							
10199	EFH (C12-C14)	n.a.	mg/kg	mg/kg	mg/kg	mg/kg	
			0.79	J	0.43	1.3	1

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

Sample Description: SL-032-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156148
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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Submitted: 12/04/2010 10:00

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32S04 SDG#: DE028-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C15-C20)	n.a.	1.4	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	2.4	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	2.8	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.61 J	0.43	1.3		1
GC Miscellaneous							
	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,800	110	540		1
10501	Isopropanol	67-63-0	2,900	110	540		1
10501	Methanol	67-56-1	3,000	110	540		1
GC Miscellaneous							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	210	5.4	14		1
08283	Ethylene glycol	107-21-1	230	5.4	14		1
08283	Propylene glycol	57-55-6	190	5.4	14		1
Terphenyls							
	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	2.0 J	1.6	3.8		1
10318	o-Terphenyl	84-15-1	2.0 J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.9 J	1.6	3.8		1
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,600	5.35	21.3		1
07914	Boron	7440-42-8	196	0.946	5.32		1
01650	Calcium	7440-70-2	3,930	6.52	21.3		1
01654	Iron	7439-89-6	25,400	5.01	21.3		1
01656	Lithium	7439-93-2	134	0.23	2.1		1
01657	Magnesium	7439-95-4	5,260	2.70	10.6		1
06958	Manganese	7439-96-5	214	0.0829	0.532		1
10145	Phosphorus	7723-14-0	254	0.595	10.6		1
01662	Potassium	7440-09-7	3,410	19.1	53.2		1
01667	Sodium	7440-23-5	1,580	39.7	106		1
07968	Strontium	7440-24-6	124	0.0659	0.532		1
06969	Tin	7440-31-5	424	1.06	10.6		1
06970	Titanium	7440-32-6	1,700	2.02	5.32		5
10146	Zirconium	7440-67-7	111	0.893	5.32		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.819	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	14.1	0.0644	0.430		2
06126	Barium	7440-39-3	191	0.116	0.430		2
06127	Beryllium	7440-41-7	2.27	0.0172	0.107		2
06128	Cadmium	7440-43-9	1.71	0.0387	0.107		2

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

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

Sample Description: SL-032-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156148
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals			mg/kg	mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	45.0	0.129	0.430		2
06132	Cobalt	7440-48-4	76.3	0.0215	0.107		2
06133	Copper	7440-50-8	25.0	0.0709	0.430		2
06135	Lead	7439-92-1	18.0	0.0112	0.215		2
06138	Molybdenum	7439-98-7	16.0	0.0537	0.107		2
06139	Nickel	7440-02-0	28.1	0.107	0.430		2
06141	Selenium	7782-49-2	3.11	0.0430	0.430		2
06142	Silver	7440-22-4	15.8	0.0129	0.107		2
06145	Thallium	7440-28-0	1.09	0.0322	0.107		2
06148	Vanadium	7440-62-2	75.5	0.0236	0.107		2
06149	Zinc	7440-66-6	80.8	0.601	3.22		2
SW-846 6020			mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.171	0.0030	0.106		1
SW-846 7471A			mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.171	0.0030	0.106		1
Wet Chemistry			%	%	%	%	
11625	28a Total Solids by 160.3	n.a.	7.8	0.50	0.50		1
EPA 160.3 modified			%	%	%	%	
11625	28a Total Solids by 160.3	n.a.	7.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-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	B103421AA	12/08/2010 05:41	Holly Berry	0.95
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103421AA	12/08/2010 06:25	Holly Berry	1.17
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402BA	12/06/2010 20:00	Jason M Long	24.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033823180	12/04/2010 15:34	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10341SLB026	12/22/2010 12:05	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10341SLH026	12/14/2010 03:13	Ryan P Byrne	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-032-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156148
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10342SLD026	12/10/2010 00:41	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10341SLB026	12/07/2010 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10342SLD026	12/08/2010 16:50	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10341SLH026	12/07/2010 23:30	Patricia L Foreman	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10340B34A	12/07/2010 22:58	Marie D John	24.27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:33	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 14:35	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400028A	12/09/2010 00:29	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103410008A	12/08/2010 17:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103410008A	12/07/2010 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400028A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103420006A	12/13/2010 23:49	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400012A	12/08/2010 19:05	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420001A	12/08/2010 18:10	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410017A	12/11/2010 13:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103420006A	12/08/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410017A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420001A	12/08/2010 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400012A	12/08/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103415708003	12/08/2010 22:58	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103415708003	12/10/2010 11:13	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103415708003	12/08/2010 22:58	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103415708003	12/08/2010 22:58	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103415708003	12/08/2010 22:58	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103415708003	12/08/2010 22:58	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103415708003	12/08/2010 22:58	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103415708003	12/08/2010 22:58	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103415708003	12/08/2010 22:58	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103415708003	12/08/2010 22:58	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103415708003	12/08/2010 22:58	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103415708003	12/10/2010 11:13	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103415708003	12/13/2010 09:51	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103415708003	12/10/2010 11:13	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103411026001D	12/09/2010 12:05	Choon Y Tian	2

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

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

Sample Description: SL-032-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156148
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103411026001C	12/09/2010 12:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103411026001B	12/09/2010 12:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103411026001A	12/09/2010 12:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103415711003	12/08/2010 07:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103415708003	12/07/2010 21:11	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103411026001	12/07/2010 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103415711003	12/07/2010 23:20	Annamaria Stipkovits	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401A	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: SL-032-SA5C-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156149
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,300	5.30	21.1		1
07914	Boron	7440-42-8	0.937 U	0.937	5.27		1
01650	Calcium	7440-70-2	2,890	6.45	21.1		1
01654	Iron	7439-89-6	25,500	4.96	21.1		1
01656	Lithium	7439-93-2	26.6	0.23	2.1		1
01657	Magnesium	7439-95-4	4,750	2.67	10.5		1
06958	Manganese	7439-96-5	158	0.0821	0.527		1
10145	Phosphorus	7723-14-0	147	0.590	10.5		1
01662	Potassium	7440-09-7	1,920	19.0	52.7		1
01667	Sodium	7440-23-5	569	39.3	105		1
07968	Strontium	7440-24-6	24.7	0.0653	0.527		1
06969	Tin	7440-31-5	3.24 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,350	2.00	5.27		5
10146	Zirconium	7440-67-7	1.92 J	0.885	5.27		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0978 J	0.0632	0.211		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.93	0.0632	0.421		2
06126	Barium	7440-39-3	163	0.114	0.421		2
06127	Beryllium	7440-41-7	1.15	0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0647 J	0.0379	0.105		2
06131	Chromium	7440-47-3	30.4	0.126	0.421		2
06132	Cobalt	7440-48-4	9.82	0.0211	0.105		2
06133	Copper	7440-50-8	11.3	0.0695	0.421		2
06135	Lead	7439-92-1	9.58	0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.803	0.0527	0.105		2
06139	Nickel	7440-02-0	14.0	0.105	0.421		2
06141	Selenium	7782-49-2	0.234 J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0259 J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.303	0.0316	0.105		2
06148	Vanadium	7440-62-2	53.9	0.0232	0.105		2
06149	Zinc	7440-66-6	60.0	0.590	3.16		2
		SW-846 7471A	mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.4	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8	0.87	1.6		1
		EPA 314.0	ug/kg	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	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

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

Sample Description: SL-032-SA5C-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156149
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	437	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	7.16	0.0100	0.0100		1
Wet Chemistry							
EPA 160.3 modified							
11625	28a Total Solids by 160.3	n.a.	7.8	0.50	0.50		1
11626	28a Total Solids by 160.3	n.a.	7.5	0.50	0.50		1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103415708003	12/08/2010 22:48	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103415708003	12/10/2010 11:06	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103415708003	12/08/2010 22:48	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103415708003	12/08/2010 22:48	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103415708003	12/08/2010 22:48	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103415708003	12/08/2010 22:48	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103415708003	12/08/2010 22:48	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103415708003	12/08/2010 22:48	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103415708003	12/08/2010 22:48	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103415708003	12/08/2010 22:48	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103415708003	12/08/2010 22:48	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103415708003	12/10/2010 11:06	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103415708003	12/13/2010 09:44	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103415708003	12/10/2010 11:06	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103411026001D	12/09/2010 11:59	Choon Y Tian	2

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

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

Sample Description: SL-032-SA5C-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5C-SB-4.0-5.0

LLI Sample # SW 6156149
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 15:00

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

32S04 SDG#: DE028-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103411026001C	12/09/2010 11:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103411026001B	12/09/2010 11:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103411026001A	12/09/2010 20:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103411026001A	12/09/2010 11:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103415711003	12/08/2010 07:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103415708003	12/07/2010 21:11	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103411026001	12/07/2010 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103415711003	12/07/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10344344201B	12/12/2010 04:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10344344201B	12/12/2010 04:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 00:44	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 10:14	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202B	12/08/2010 18:26	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10344344201B	12/10/2010 12:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202B	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103B	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403B	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401A	12/20/2010 16:51	Scott W Freisher	1
11626	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401A	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: DUP11-SA5C-QC-120310 Soil
SSFL Area IV Collocated Soil Sampling
DUP11-SA5C-QC-120310

LLI Sample # SW 6156150
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 14:53

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

DP11S SDG#: DE028-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3 U	7.3	8.7		1
06192	Benzene	71-43-2	0.11 U	0.11	4.3		1
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3		1
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.3		1
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3		1
06192	Bromoform	75-25-2	0.43 U	0.43	4.3		1
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3		1
06192	2-Butanone	78-93-3	1.3 U	1.3	8.7		1
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3		1
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.3		1
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3		1
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3		1
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3		1
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.3		1
06192	Chloroform	67-66-3	0.13 U	0.13	4.3		1
06192	Chloromethane	74-87-3	0.36 U	0.36	4.3		1
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3		1
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3		1
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76 U	0.76	4.3		1
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.3		1
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3		1
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3		1
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3		1
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3		1
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3		1
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3		1
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3		1
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3		1
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.3		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3		1
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3		1
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3		1
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3		1
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3		1
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.3		1
06192	Freon 113	76-13-1	0.12 U	0.12	4.3		1
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4		1
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3		1
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.7		1
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.3		1
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.3		1
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.7		1
06192	Methylene Chloride	75-09-2	0.42 U	0.26	4.3		1
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.3		1

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

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

Sample Description: DUP11-SA5C-QC-120310 Soil
SSFL Area IV Collocated Soil Sampling
DUP11-SA5C-QC-120310

LLI Sample # SW 6156150
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 14:53

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

DP11S SDG#: DE028-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.3		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.3		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.3		1
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.3		1
06192	Toluene	108-88-3	0.09 U	0.09	4.3		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.3		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.3		1
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.3		1
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.3		1
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.3		1
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.3		1
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.3		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.3		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.3		1
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.3		1
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.3		1
06192	o-Xylene	95-47-6	0.18 U	0.18	4.3		1
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1 U	5.1	15		23.58
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.1 U	18.1	36.2		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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

Sample Description: DUP11-SA5C-QC-120310 Soil
SSFL Area IV Collocated Soil Sampling
DUP11-SA5C-QC-120310

LLI Sample # SW 6156150
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 14:53

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

DP11S SDG#: DE028-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	72	U 72	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	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

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

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

Sample Description: DUP11-SA5C-QC-120310 Soil
SSFL Area IV Collocated Soil Sampling
DUP11-SA5C-QC-120310

LLI Sample # SW 6156150
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 14:53

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

DP11S SDG#: DE028-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.72 U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72 U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72 U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.1		24.37
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82 U	82	160	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1000000 0	1
10132	HMX	2691-41-0	140 U	140	410	1000000 0	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140 U	140	160	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1000000 0	1
10132	PETN	78-11-5	1,100 U	1,100	3,300	1000000 0	1
10132	RDX	121-82-4	68 U	68	160	1000000 0	1
10132	Tetryl	479-45-8	83 U	83	160	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	54 U	54	160	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	54 U	54	160	1000000 0	1

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

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

Sample Description: DUP11-SA5C-QC-120310 Soil
SSFL Area IV Collocated Soil Sampling
DUP11-SA5C-QC-120310

LLI Sample # SW 6156150
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 14:53

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

DP11S SDG#: DE028-06FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics		SW-846 8315A	ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by	8315A 50-00-0	650	U	650	1,600		1
Pesticides/PCBs		SW-846 8082	ug/kg		ug/kg	ug/kg	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.								
GC Extractable TPH		SW-846 8015B modified	mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous		SW-846 8015B	ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous		SW-846 8015B modified	mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
Terphenyls		SW-846 8015B	mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,300		5.31	21.1		1
07914	Boron	7440-42-8	7.82		0.939	5.28		1
01650	Calcium	7440-70-2	1,990		6.47	21.1		1
01654	Iron	7439-89-6	23,000		4.97	21.1		1

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

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

Sample Description: DUP11-SA5C-QC-120310 Soil
SSFL Area IV Collocated Soil Sampling
DUP11-SA5C-QC-120310

LLI Sample # SW 6156150
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 14:53

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

DP11S SDG#: DE028-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	26.4	0.23	2.1		1
01657	Magnesium	7439-95-4	4,760	2.68	10.6		1
06958	Manganese	7439-96-5	169	0.0823	0.528		1
10145	Phosphorus	7723-14-0	136	0.591	10.6		1
01662	Potassium	7440-09-7	2,090	19.0	52.8		1
01667	Sodium	7440-23-5	648	39.4	106		1
07968	Strontium	7440-24-6	22.0	0.0654	0.528		1
06969	Tin	7440-31-5	2.63 J	1.06	10.6		1
06970	Titanium	7440-32-6	1,260	0.802	2.11		2
10146	Zirconium	7440-67-7	1.22 J	0.886	5.28		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0639 U	0.0639	0.213		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.20	0.0639	0.426		2
06126	Barium	7440-39-3	125	0.115	0.426		2
06127	Beryllium	7440-41-7	0.853	0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0623 J	0.0384	0.107		2
06131	Chromium	7440-47-3	25.7	0.128	0.426		2
06132	Cobalt	7440-48-4	4.49	0.0213	0.107		2
06133	Copper	7440-50-8	9.56	0.0703	0.426		2
06135	Lead	7439-92-1	8.17	0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.834	0.0533	0.107		2
06139	Nickel	7440-02-0	11.3	0.107	0.426		2
06141	Selenium	7782-49-2	0.111 J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0279 J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.396	0.0320	0.107		2
06148	Vanadium	7440-62-2	44.0	0.0234	0.107		2
06149	Zinc	7440-66-6	56.6	0.597	3.20		2
		SW-846 7471A	mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.5	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3	0.87	1.6		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.6		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	2.3	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.54		1

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

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

Sample Description: DUP11-SA5C-QC-120310 Soil
SSFL Area IV Collocated Soil Sampling
DUP11-SA5C-QC-120310

LLI Sample # SW 6156150
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 14:53

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

DP11S SDG#: DE028-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	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	Std. Units	
00394	22a pH by 9045C	n.a.	8.42	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	8.0	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
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103421AA	12/08/2010 06:48	Holly Berry	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103402BB	12/07/2010 08:24	Jason M Long	23.58
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:37	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033823180	12/04/2010 15:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033823180	12/04/2010 15:38	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10341SLB026	12/22/2010 13:50	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10341SLH026	12/14/2010 05:24	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10342SLD026	12/10/2010 03:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10341SLB026	12/07/2010 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10342SLD026	12/08/2010 16:50	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	10341SLH026	12/07/2010 23:30	Patricia L Foreman	1

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

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

Sample Description: DUP11-SA5C-QC-120310 Soil
SSFL Area IV Collocated Soil Sampling
DUP11-SA5C-QC-120310

LLI Sample # SW 6156150
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 14:53

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

DP11S SDG#: DE028-06FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10340B34A	12/07/2010 23:35	Marie D John	24.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033823180	12/04/2010 15:37	Christopher D Weeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 15:18	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103400028A	12/09/2010 00:38	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103410008A	12/08/2010 17:33	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103410008A	12/07/2010 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103400028A	12/07/2010 08:10	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103420006A	12/14/2010 00:14	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103400012A	12/08/2010 19:19	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420001A	12/08/2010 17:22	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103410017A	12/11/2010 13:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103420006A	12/08/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103410017A	12/08/2010 09:40	Edwin Ortiz	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420001A	12/08/2010 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103400012A	12/08/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103415708003	12/08/2010 23:28	John W Yanzuk II	1
07914	Boron	SW-846 6010B	2	103415708003	12/14/2010 12:16	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103415708003	12/08/2010 23:28	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103415708003	12/08/2010 23:28	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103415708003	12/08/2010 23:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103415708003	12/08/2010 23:28	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103415708003	12/08/2010 23:28	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103415708003	12/08/2010 23:28	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103415708003	12/08/2010 23:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103415708003	12/08/2010 23:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103415708003	12/08/2010 23:28	John W Yanzuk II	1
06969	Tin	SW-846 6010B	2	103415708003	12/14/2010 12:16	Joanne M Gates	1
06970	Titanium	SW-846 6010B	2	103415708003	12/14/2010 12:23	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	2	103415708003	12/14/2010 12:16	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103411026001D	12/09/2010 12:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2

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

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

Sample Description: DUP11-SA5C-QC-120310 Soil
SSFL Area IV Collocated Soil Sampling
DUP11-SA5C-QC-120310

LLI Sample # SW 6156150
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 14:53

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

DP11S SDG#: DE028-06FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	103411026001C	12/09/2010 12:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103411026001B	12/09/2010 12:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103411026001A	12/09/2010 12:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103415711003	12/08/2010 07:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103415708003	12/07/2010 21:11	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103411026001	12/07/2010 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103415711003	12/07/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201A	12/15/2010 16:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201A	12/15/2010 16:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10349349201B	12/18/2010 04:44	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10355243201A	12/27/2010 10:33	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10342102202B	12/08/2010 18:29	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10348348201A	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10349349201B	12/15/2010 22:00	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10342102202B	12/08/2010 10:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10340182103B	12/06/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10340039403B	12/06/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401A	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: TB-120310 Water
SSFL Area IV Collocated Soil Sampling
TB-120310

LLI Sample # WW 6156151
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 13:30

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

11STB SDG#: DE028-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	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

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

Sample Description: TB-120310 Water
SSFL Area IV Collocated Soil Sampling
TB-120310

LLI Sample # WW 6156151
LLI Group # 1223933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/03/2010 13:30

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

Submitted: 12/04/2010 10:00

Reported: 12/29/2010 14:47

11STB SDG#: DE028-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l		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	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC	Volatiles	TPH GRO SW-8015B	ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	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
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103422AA	12/08/2010 15:49	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103351AC	12/06/2010 11:37	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103351AC	12/06/2010 11:37	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103422AA	12/08/2010 15:49	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10342A20A	12/08/2010 23:35	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10342A20A	12/08/2010 23:35	Marie D John	1

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

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: B103421AA Sample number(s): 6156142-6156148, 6156150									
Acetone	6.7 U	6.7	8.0	ug/kg	89		32-209		
Benzene	0.10 U	0.10	4.0	ug/kg	104		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	100		79-124		
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40 U	0.40	4.0	ug/kg	94		70-120		
Bromomethane	0.25 U	0.25	4.0	ug/kg	74		32-162		
2-Butanone	1.2 U	1.2	8.0	ug/kg	90		46-153		
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	97		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	95		75-120		
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	101		69-122		
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13 U	0.13	4.0	ug/kg	75		37-154		
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	100		43-146		
Chloroform	0.12 U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33 U	0.33	4.0	ug/kg	74		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	140*		22-131		
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	89		58-120		
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	95		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	100		80-120		
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	95		79-120		
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	95		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	59		20-120		
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	101		80-120		
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	101		73-123		
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	102		80-120		
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	102		79-120		
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	98		80-120		
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	94		80-120		
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	100		72-123		
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	101		77-120		
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	94		80-120		
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	90		77-120		
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	97		80-120		
Freon 113	0.11 U	0.11	4.0	ug/kg	95		61-126		
Freon 133a	0.50 U	0.50	5.0	ug/kg	98		78-120		
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	96		57-120		
2-Hexanone	1.6 U	1.6	8.0	ug/kg	67		45-155		
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	98		76-120		
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	97		75-120		

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %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	73		61-134		
Methylene Chloride	0.81 J	0.24	4.0	ug/kg	97		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	99		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	98		77-120		
Toluene	0.1 J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	91		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	90		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	102		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	95		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	100		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	83		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	93		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	96		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	75		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	95		80-120		
Batch number: E103351AC	Sample number(s): 6156151								
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	101		60-132		
Batch number: E103402BA	Sample number(s): 6156142-6156148								
1,4-Dioxane	5.0 U	5.0	15	ug/kg	89	94	70-130	5	30
Batch number: E103402BB	Sample number(s): 6156150								
1,4-Dioxane	5.0 U	5.0	15	ug/kg	103	107	70-130	4	30
Batch number: Y103422AA	Sample number(s): 6156151								
Acetone	6 U	6.	20	ug/l	117	129	49-234	10	30
Benzene	0.5 U	0.5	5	ug/l	96	105	79-120	10	30
Bromobenzene	1 U	1.	5	ug/l	103	114	80-120	11	30
Bromochloromethane	1 U	1.	5	ug/l	99	109	80-120	9	30
Bromodichloromethane	1 U	1.	5	ug/l	93	103	80-120	10	30
Bromoform	1 U	1.	5	ug/l	96	104	61-120	8	30
Bromomethane	1 U	1.	5	ug/l	89	98	44-120	10	30
2-Butanone	3 U	3.	10	ug/l	93	105	66-151	12	30
n-Butylbenzene	1 U	1.	5	ug/l	96	106	74-120	10	30
sec-Butylbenzene	1 U	1.	5	ug/l	102	114	78-120	11	30
tert-Butylbenzene	1 U	1.	5	ug/l	98	109	80-120	10	30
Carbon Tetrachloride	1 U	1.	5	ug/l	100	109	75-123	9	30
Chlorobenzene	0.8 U	0.8	5	ug/l	99	110	80-120	10	30
Chloroethane	1 U	1.	5	ug/l	90	98	49-129	8	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	109	121	56-129	10	30
Chloroform	0.8 U	0.8	5	ug/l	98	108	77-122	10	30
Chloromethane	1 U	1.	5	ug/l	92	102	60-129	10	30
2-Chlorotoluene	1 U	1.	5	ug/l	105	114	80-120	9	30
4-Chlorotoluene	1 U	1.	5	ug/l	98	108	80-120	9	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	120	112	38-136	6	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	114	126*	66-120	10	30
Dibromochloromethane	1 U	1.	5	ug/l	101	110	80-120	9	30
1,2-Dibromoethane	1 U	1.	5	ug/l	101	112	80-120	10	30
Dibromomethane	1 U	1.	5	ug/l	97	107	80-120	9	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	95	105	80-120	10	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	100	111	80-120	11	30

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

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	98	108	80-120	10	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	66	73	47-120	10	30
1,1-Dichloroethane	1 U	1.	5	ug/l	101	111	79-120	10	30
1,2-Dichloroethane	1 U	1.	5	ug/l	99	110	70-130	10	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	96	106	74-123	10	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	100	111	80-120	10	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	111	80-120	11	30
1,2-Dichloropropane	1 U	1.	5	ug/l	95	105	78-120	9	30
1,3-Dichloropropane	1 U	1.	5	ug/l	102	112	80-120	9	30
2,2-Dichloropropane	1 U	1.	5	ug/l	93	104	77-124	10	30
1,1-Dichloropropene	1 U	1.	5	ug/l	97	107	80-120	10	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	90	100	80-120	10	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	96	108	79-120	12	30
Ethylbenzene	0.8 U	0.8	5	ug/l	97	109	79-120	11	30
Freon 113	2 U	2.	10	ug/l	94	102	69-128	8	30
Freon 133a	2 U	2.	5	ug/l	106	103	77-120	3	30
Hexachlorobutadiene	2 U	2.	5	ug/l	88	101	58-120	14	30
2-Hexanone	3 U	3.	10	ug/l	99	111	65-136	11	30
Isopropylbenzene	1 U	1.	5	ug/l	97	108	77-120	10	30
p-Isopropyltoluene	1 U	1.	5	ug/l	101	111	80-120	9	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	109	76-120	12	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	94	107	70-121	12	30
Methylene Chloride	2 U	2.	5	ug/l	100	113	80-120	12	30
n-Propylbenzene	1 U	1.	5	ug/l	105	116	80-120	10	30
Styrene	1 U	1.	5	ug/l	98	107	80-120	8	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	102	114	80-120	11	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	105	117	71-120	10	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	98	109	80-121	10	30
Toluene	0.7 U	0.7	5	ug/l	100	109	79-120	9	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	96	108	65-120	12	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	93	107	67-120	13	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	85	96	75-127	12	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	100	111	80-120	10	30
Trichloroethene	1 U	1.	5	ug/l	95	105	80-120	10	30
Trichlorofluoromethane	2 U	2.	5	ug/l	79	85	64-129	8	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	108	119	80-120	10	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	105	115	74-120	9	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	102	113	75-120	10	30
Vinyl Chloride	1 U	1.	5	ug/l	83	93	65-125	11	30
m+p-Xylene	0.8 U	0.8	5	ug/l	95	105	80-120	10	30
o-Xylene	0.8 U	0.8	5	ug/l	96	106	80-120	10	30

Batch number: 10341SLB026
N-Nitrosodimethylamine

Sample number(s): 6156142-6156148, 6156150
16.7 U 16.7 33.3 ng/kg

95 70-130

Batch number: 10341SLH026

Sample number(s): 6156142-6156148, 6156150

Acenaphthene
Acenaphthylene
Aniline

17 U 17. 170 ug/kg 92
17 U 17. 170 ug/kg 94
170 170. 500 ug/kg 53

76-111
75-122
10-107

Anthracene
Benzidine

17 U 17. 170 ug/kg 96
1,200 U 1,200. 3,300 ug/kg 39

76-112
15-121

Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene

17 U 17. 170 ug/kg 96
17 U 17. 170 ug/kg 98
17 U 17. 170 ug/kg 106
17 U 17. 170 ug/kg 104
17 U 17. 170 ug/kg 92

73-112
69-122
61-127
65-122
67-125

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzoic acid	170 U	170.	500	ug/kg	96		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U 17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U 17.	170	ug/kg	96		75-115		
Di-n-butylphthalate	17	U 17.	170	ug/kg	95		79-112		
Carbazole	17	U 17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U 33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U 67.	170	ug/kg	43		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	87		70-104		
bis(2-Chloroisopropyl)ether	17	U 17.	170	ug/kg	75		68-131		
2-Chloronaphthalene	17	U 17.	170	ug/kg	97		67-127		
2-Chlorophenol	17	U 17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U 33.	170	ug/kg	101		79-110		
Chrysene	17	U 17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U 17.	170	ug/kg	102		70-128		
Dibenzofuran	17	U 17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U 17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U 17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U 17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	67		38-105		
2,4-Dichlorophenol	17	U 17.	170	ug/kg	96		75-111		
Diethylphthalate	17	U 17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U 33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U 33.	170	ug/kg	109		70-130		
Dimethylphthalate	17	U 17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	85		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	85		37-120		
2,4-Dinitrotoluene	33	U 33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U 17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U 17.	170	ug/kg	88		77-111		
bis(2-Ethylhexyl)phthalate	17	U 17.	330	ug/kg	95		75-117		
Fluoranthene	17	U 17.	170	ug/kg	99		78-116		
Fluorene	17	U 17.	170	ug/kg	97		75-116		
Hexachlorobenzene	17	U 17.	170	ug/kg	97		78-116		
Hexachlorobutadiene	67	U 67.	170	ug/kg	87		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	75		46-115		
Hexachloroethane	17	U 17.	170	ug/kg	86		68-105		
Indeno(1,2,3-cd)pyrene	17	U 17.	170	ug/kg	103		64-119		
Isophorone	17	U 17.	170	ug/kg	86		69-110		
1-Methylnaphthalene	17	U 17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U 17.	170	ug/kg	88		76-105		
2-Methylphenol	33	U 33.	170	ug/kg	94		66-110		
4-Methylphenol	33	U 33.	170	ug/kg	87		66-117		
Naphthalene	17	U 17.	170	ug/kg	89		73-106		
2-Nitroaniline	17	U 17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U 33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U 67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U 17.	170	ug/kg	85		71-104		
2-Nitrophenol	17	U 17.	170	ug/kg	92		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	79		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

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	81		63-107		
N-Nitrosodimethylamine	33 U	33.	170	ug/kg	83		60-106		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17 U	17.	170	ug/kg	102		68-130		
Pentachlorophenol	170 U	170.	500	ug/kg	90		35-106		
Phenanthrene	17 U	17.	170	ug/kg	94		77-113		
Phenol	17 U	17.	170	ug/kg	84		58-112		
Pyrene	17 U	17.	170	ug/kg	94		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	98		78-111		
Batch number: 10342SLD026 Sample number(s): 6156142-6156148, 6156150									
Acenaphthene	0.67 U	0.67	1.7	ug/kg	89		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	87		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	91		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	84		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	100		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	92		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	106		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	113		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	90		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	94		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	98		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	122		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	90		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	95		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	91		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	80		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	83		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	87		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	111		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	86		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	86		56-121		
Batch number: 10340B34A Sample number(s): 6156142-6156148, 6156150									
9a TPH by EPA 8015B Gas	0.2 U	0.2	1.0	mg/kg	72	78	67-119	8	30
Batch number: 10342A20A Sample number(s): 6156151									
TPH-GRO S.CA water C5-C12	20 U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 103420004A Sample number(s): 6156142-6156148, 6156150									
4-Amino-2,6-Dinitrotoluene	75 U	75.	150	ug/kg	105		80-120		
2-Amino-4,6-Dinitrotoluene	50 U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100 U	100.	300	ug/kg	76	85	54-134	12	30
2,4-Diamino-6-nitrotoluene	100 U	100.	300	ug/kg	76	85	54-134	12	30
1,3-Dinitrobenzene	50 U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50 U	50.	150	ug/kg	104		72-135		
2,6-Dinitrotoluene	50 U	50.	150	ug/kg	108		80-120		
HMX	130 U	130.	380	ug/kg	96		74-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

<u>Analysis Name</u>	<u>Blank Result</u>		<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Nitrobenzene	50	U	50.	150	ug/kg	107		80-120		
Nitroglycerin	1,000		1,000.	3,000	ug/kg	92		80-120		
2-Nitrotoluene	100		100.	150	ug/kg	108		78-128		
3-Nitrotoluene	130		130.	150	ug/kg	109		73-127		
4-Nitrotoluene	100		100.	150	ug/kg	106		80-120		
PETN	1,000		1,000.	3,000	ug/kg	104		80-120		
RDX	63	U	63.	150	ug/kg	104		75-131		
Tetryl	77	U	77.	150	ug/kg	109		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	116		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	107		80-120		
Batch number: 103400028A	Sample number(s): 6156142-6156148,6156150									
17a Formaldehyde by 8315A	600		600.	1,500	ug/kg	92		80-126		
Batch number: 103420019A	Sample number(s): 6156144									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	96		70-130		
Batch number: 103410008A	Sample number(s): 6156142-6156148,6156150									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	54*	60*	75-125	11	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	87		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	97		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: 103420006A	Sample number(s): 6156142-6156148,6156150									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		66-113		
Batch number: 103400012A	Sample number(s): 6156142-6156148,6156150									
Ethanol	100		100.	500	ug/kg	89		75-112		
Isopropanol	100		100.	500	ug/kg	93		75-125		
Methanol	100		100.	500	ug/kg	93		75-134		
Batch number: 103420001A	Sample number(s): 6156142-6156148,6156150									
Diethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	112		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 103410017A	Sample number(s): 6156142-6156148,6156150									

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	103		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	102		75-125		
Batch number: 103411026001A	Sample number(s): 6156142-6156150								
Antimony	0.0600 U	0.0600	0.200	mg/kg	91		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	107		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	104		82-118		
Cadmium	0.0580 J	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	101		82-118		
Copper	0.167 J	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	109		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	107		81-119		
Vanadium	0.0362 J	0.0220	0.100	mg/kg	94		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	107		78-122		
Batch number: 103411026001B	Sample number(s): 6156142-6156150								
Selenium	0.0400 U	0.0400	0.400	mg/kg	105		79-122		
Batch number: 103411026001C	Sample number(s): 6156142-6156150								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 103411026001D	Sample number(s): 6156142-6156150								
Barium	0.108 U	0.108	0.400	mg/kg	105		79-121		
Batch number: 103415708003	Sample number(s): 6156142-6156150								
Aluminum	5.03 U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	93		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	106		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	104		81-119		
Phosphorus	1.63 J	0.560	10.0	mg/kg	105		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	1.83 J	1.00	10.0	mg/kg	112		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	104		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	109		80-120		
Batch number: 103415711003	Sample number(s): 6156142-6156150								
Mercury	0.0028 U	0.0028	0.0987	mg/kg	104		88-123		
Batch number: 10342102202B	Sample number(s): 6156142-6156147, 6156149-6156150								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	105		80-120		
Batch number: 10344344201B	Sample number(s): 6156146-6156147, 6156149								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	97		90-110		
Batch number: 10348348201A	Sample number(s): 6156142-6156145, 6156150								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCS D Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10349349201B 7a Perchlorate EPA 314.0	Sample number(s): 6156142-6156147, 6156149-6156150 9.0 U 9.0	30.0	ug/kg	101			85-115		
Batch number: 10355243201A 3a Cr VI by EPA 7199	Sample number(s): 6156142-6156147, 6156149-6156150 0.20 U 0.20	1.0	mg/kg	87			80-120		
Batch number: 10340039403A 22a pH by 9045C	Sample number(s): 6156142-6156144			101			95-105		
Batch number: 10340039403B 22a pH by 9045C	Sample number(s): 6156145-6156146, 6156149-6156150 101			101			95-105		
Batch number: 10340182103A Oxidation Reduction Potential	Sample number(s): 6156142-6156144			99			98-102		
Batch number: 10340182103B Oxidation Reduction Potential	Sample number(s): 6156145-6156146, 6156149-6156150 99			99			98-102		
Batch number: 10354162401A 28a Total Solids by 160.3 28a Total Solids by 160.3 28a Total Solids by 160.3	Sample number(s): 6156142-6156150			100 100 100			80-120 80-120 80-120		

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103421AA	Sample number(s): 6156142-6156148, 6156150 UNSPK: 6156146								
Acetone	89	89	15-210	8	30				
Benzene	116	115	55-143	10	30				
Bromobenzene	107	106	43-139	9	30				
Bromochloromethane	111	109	60-137	11	30				
Bromodichloromethane	108	107	53-136	9	30				
Bromoform	102	102	38-124	9	30				
Bromomethane	84	80	42-168	13	30				
2-Butanone	85	88	37-163	5	30				
n-Butylbenzene	114	109	30-146	13	30				
sec-Butylbenzene	115	112	33-157	11	30				
tert-Butylbenzene	110	108	41-152	10	30				
Carbon Tetrachloride	120	117	45-153	10	30				
Chlorobenzene	109	109	49-135	8	30				
Chloroethane	87	83	39-152	12	30				
2-Chloroethyl Vinyl Ether	96	99	32-139	5	30				
Chloroform	115	114	61-142	9	30				
Chloromethane	90	87	51-163	11	30				
2-Chlorotoluene	110	108	42-146	10	30				
4-Chlorotoluene	111	110	39-145	9	30				
Chlorotrifluoroethene	162*	162*	70-130	10	30				
1,2-Dibromo-3-chloropropane	89	93	30-139	4	30				
Dibromochloromethane	105	105	51-128	9	30				
1,2-Dibromoethane	101	103	54-129	6	30				

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Group Number: 1223933

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
Dibromomethane	106	106	57-130	9	30				
1,2-Dichlorobenzene	110	108	36-133	9	30				
1,3-Dichlorobenzene	109	107	34-134	10	30				
1,4-Dichlorobenzene	108	106	35-136	11	30				
Dichlorodifluoromethane	70	66	26-151	14	30				
1,1-Dichloroethane	115	113	63-142	10	30				
1,2-Dichloroethane	110	109	68-131	10	30				
1,1-Dichloroethene	120	118	61-149	10	30				
cis-1,2-Dichloroethene	116	113	60-136	11	30				
trans-1,2-Dichloroethene	117	115	59-142	10	30				
1,2-Dichloropropane	110	109	62-135	9	30				
1,3-Dichloropropane	103	105	58-129	6	30				
2,2-Dichloropropane	115	114	53-147	9	30				
1,1-Dichloropropene	116	116	54-145	8	30				
cis-1,3-Dichloropropene	102	103	51-131	7	30				
trans-1,3-Dichloropropene	100	103	49-129	6	30				
Ethylbenzene	113	112	44-141	9	30				
Freon 113	109	107	56-156	10	30				
Freon 133a	110	111	70-130	11	30				
Hexachlorobutadiene	106	101	10-155	13	30				
2-Hexanone	64	68	32-160	2	30				
Isopropylbenzene	115	110	38-144	12	30				
p-Isopropyltoluene	113	110	29-152	11	30				
Methyl Tertiary Butyl Ether	97	97	55-129	8	30				
4-Methyl-2-pentanone	71	72	46-139	7	30				
Methylene Chloride	105	103	61-141	9	30				
n-Propylbenzene	115	112	39-157	11	30				
Styrene	111	110	35-134	10	30				
1,1,1,2-Tetrachloroethane	111	110	52-130	10	30				
1,1,2,2-Tetrachloroethane	96	99	40-152	6	30				
Tetrachloroethene	122	121	42-149	10	30				
Toluene	113	112	50-146	9	30				
1,2,3-Trichlorobenzene	104	104	10-140	9	30				
1,2,4-Trichlorobenzene	104	101	10-136	11	30				
1,1,1-Trichloroethane	118	117	64-142	9	30				
1,1,2-Trichloroethane	104	104	54-139	8	30				
Trichloroethene	114	112	53-144	10	30				
Trichlorofluoromethane	99	94	47-163	13	30				
1,2,3-Trichloropropane	98	97	45-154	9	30				
1,2,4-Trimethylbenzene	111	109	37-149	10	30				
1,3,5-Trimethylbenzene	113	110	38-150	11	30				
Vinyl Chloride	85	87	50-154	6	30				
m+p-Xylene	113	111	44-137	11	30				
o-Xylene	109	107	42-137	10	30				

Batch number: E103351AC Sample number(s): 6156151 UNSPK: P151866
1,4-Dioxane 100 119 50-150 8 30

Batch number: E103402BA Sample number(s): 6156142-6156148 UNSPK: 6156146
1,4-Dioxane 82 85 70-130 3 30

Batch number: E103402BB Sample number(s): 6156150 UNSPK: 6156146
1,4-Dioxane 82 85 70-130 3 30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

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: 10341SLB026 N-Nitrosodimethylamine	95	93	70-130	2	30				
Sample number(s): 6156142-6156148,6156150 UNSPK: 6156146									
Batch number: 10341SLH026									
Acenaphthene	92	94	75-115	2	30				
Acenaphthylene	96	96	49-126	1	30				
Aniline	72	66	14-114	9	30				
Anthracene	97	93	75-115	4	30				
Benzidine	39	39	35-141	2	30				
Benzo(a)anthracene	98	96	65-122	2	30				
Benzo(a)pyrene	100	97	57-126	3	30				
Benzo(b)fluoranthene	100	101	59-125	1	30				
Benzo(g,h,i)perylene	109	104	59-127	5	30				
Benzo(k)fluoranthene	104	93	56-132	12	30				
Benzoic acid	63	67	10-173	7	30				
Benzyl alcohol	96	88	55-123	8	30				
4-Bromophenyl-phenylether	95	90	67-129	5	30				
Butylbenzylphthalate	98	96	73-134	2	30				
Di-n-butylphthalate	96	93	67-123	3	30				
Carbazole	96	94	64-120	3	30				
4-Chloro-3-methylphenol	97	96	53-130	1	30				
4-Chloroaniline	69	69	23-95	0	30				
bis(2-Chloroethoxy)methane	90	91	54-117	2	30				
bis(2-Chloroethyl)ether	89	85	60-116	4	30				
bis(2-Chloroisopropyl)ether	80	77	55-142	4	30				
2-Chloronaphthalene	97	97	50-141	0	30				
2-Chlorophenol	98	93	73-121	5	30				
4-Chlorophenyl-phenylether	99	100	64-119	0	30				
Chrysene	101	96	62-128	5	30				
Dibenz(a,h)anthracene	106	101	65-125	5	30				
Dibenzofuran	96	97	71-112	1	30				
1,2-Dichlorobenzene	90	85	66-108	6	30				
1,3-Dichlorobenzene	89	82	63-109	8	30				
1,4-Dichlorobenzene	91	85	53-113	6	30				
3,3'-Dichlorobenzidine	72	66	25-123	8	30				
2,4-Dichlorophenol	98	97	78-117	1	30				
Diethylphthalate	95	95	66-118	0	30				
2,4-Dimethylphenol	94	92	56-130	3	30				
3,5-Dimethylphenol	110	111	70-130	1	30				
Dimethylphthalate	94	94	64-118	1	30				
4,6-Dinitro-2-methylphenol	77	77	10-148	0	30				
2,4-Dinitrophenol	52	52	20-143	0	30				
2,4-Dinitrotoluene	98	98	57-114	0	30				
2,6-Dinitrotoluene	99	97	69-123	1	30				
1,2-Diphenylhydrazine	91	87	71-129	5	30				
bis(2-Ethylhexyl)phthalate	99	94	63-122	5	30				
Fluoranthene	98	97	59-122	2	30				
Fluorene	96	97	60-125	1	30				
Hexachlorobenzene	102	95	61-111	7	30				
Hexachlorobutadiene	91	84	62-120	8	30				
Hexachlorocyclopentadiene	74	70	10-153	6	30				
Hexachloroethane	84	80	57-109	6	30				

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Quality Control Summary

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Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

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
Indeno(1,2,3-cd)pyrene	107	103	61-126	5	30				
Isophorone	88	87	51-118	1	30				
1-Methylnaphthalene	98	97	73-112	1	30				
2-Methylnaphthalene	90	91	76-114	1	30				
2-Methylphenol	97	90	47-142	7	30				
4-Methylphenol	92	89	55-126	3	30				
Naphthalene	91	91	72-116	0	30				
2-Nitroaniline	98	99	67-125	0	30				
3-Nitroaniline	95	93	59-122	2	30				
4-Nitroaniline	73	74	52-112	1	30				
Nitrobenzene	87	88	51-114	1	30				
2-Nitrophenol	95	94	74-115	0	30				
4-Nitrophenol	77	76	39-133	2	30				
N-Nitroso-di-n-propylamine	83	80	60-116	4	30				
N-Nitrosodimethylamine	83	81	47-116	3	30				
N-Nitrosodiphenylamine	96	92	86-145	4	30				
Di-n-octylphthalate	103	97	56-126	6	30				
Pentachlorophenol	92	83	17-149	10	30				
Phenanthrene	96	93	65-125	3	30				
Phenol	90	83	58-126	8	30				
Pyrene	98	94	51-151	4	30				
1,2,4-Trichlorobenzene	93	92	72-115	0	30				
2,4,5-Trichlorophenol	98	98	34-139	1	30				
2,4,6-Trichlorophenol	96	96	49-140	1	30				

Batch number: 10342SLD026	Sample number(s): 6156142-6156148,6156150 UNSPK: 6156146								
Acenaphthene	89	86	63-105	4	30				
Acenaphthylene	88	85	55-126	3	30				
Anthracene	90	87	46-136	4	30				
Benzo(a)anthracene	90	86	39-144	4	30				
Benzo(a)pyrene	84	81	34-156	5	30				
Benzo(b)fluoranthene	94	90	43-155	4	30				
Benzo(g,h,i)perylene	86	84	33-141	3	30				
Benzo(k)fluoranthene	88	87	42-144	1	30				
Butylbenzylphthalate	109	106	73-140	3	30				
Di-n-butylphthalate	88	89	78-160	0	30				
Chrysene	93	89	29-156	4	30				
Dibenz(a,h)anthracene	81	79	41-130	2	30				
Diethylphthalate	95	94	87-131	1	30				
Dimethylphthalate	96	94	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	111	107	39-167	3	30				
Fluoranthene	93	90	26-166	3	30				
Fluorene	92	87	45-121	5	30				
Indeno(1,2,3-cd)pyrene	81	79	21-143	2	30				
1-Methylnaphthalene	90	88	72-123	2	30				
2-Methylnaphthalene	84	82	28-121	2	30				
Naphthalene	87	88	61-102	2	30				
N-Nitrosodimethylamine	89	88	48-113	1	30				
Di-n-octylphthalate	109	107	40-192	2	30				
Phenanthrene	89	86	12-165	3	30				
Pyrene	91	87	15-153	5	30				

Batch number: 10340B34A Sample number(s): 6156142-6156148,6156150 UNSPK: 6156146

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

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
9a TPH by EPA 8015B Gas	82	72	39-118	19	30				
Batch number: 10342A20A TPH-GRO S.CA water C5-C12	Sample number(s): 6156151 UNSPK: P156271 113 63-154								
Batch number: 103420004A 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 1,3-Dinitrobenzene 2,4-Dinitrotoluene 2,6-Dinitrotoluene HMX Nitrobenzene Nitroglycerin 2-Nitrotoluene 3-Nitrotoluene 4-Nitrotoluene PETN RDX Tetryl 1,3,5-Trinitrobenzene 2,4,6-Trinitrotoluene	Sample number(s): 6156142-6156148,6156150 UNSPK: 6156146 107 108 80-127 0 50 107 106 80-137 0 50 104 104 38-166 1 50 102 102 80-131 0 50 108 107 80-127 1 50 101 95 63-128 6 50 104 103 80-125 1 50 94 94 80-120 0 50 105 106 80-122 1 50 106 106 72-119 1 50 105 106 80-125 1 50 108 107 80-121 0 50 98 95 75-129 2 50 106 101 55-174 5 50 112 109 82-126 2 50 105 105 82-130 0 50								
Batch number: 103400028A 17a Formaldehyde by 8315A	Sample number(s): 6156142-6156148,6156150 UNSPK: 6156146 103 101 80-120 2 50								
Batch number: 103420019A 6a Perchlorate EPA 6850	Sample number(s): 6156144 UNSPK: P151502 101 106 70-130 5 30								
Batch number: 103410008A PCB-1016 PCB-1260	Sample number(s): 6156142-6156148,6156150 UNSPK: 6156146 83 77 29-146 7 50 89 84 39-149 6 50								
Batch number: 103420006A EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30 - C40) EFH (C8-C11)	Sample number(s): 6156142-6156148,6156150 UNSPK: 6156146 86 87 49-123 1 20 102 102 49-123 0 20 109 107 49-123 2 20 95 103 49-123 8 20 62 67 49-123 7 20								
Batch number: 103400012A Ethanol Isopropanol Methanol	Sample number(s): 6156142-6156148,6156150 UNSPK: 6156146 83 99 24-143 18 20 91 106 75-125 15 20 89 109 45-136 20 20								
Batch number: 103420001A Diethylene glycol Ethylene glycol Propylene glycol	Sample number(s): 6156142-6156148,6156150 UNSPK: 6156146 78 94 59-109 19 20 105 104 63-107 0 20 89 88 63-107 1 20								
Batch number: 103410017A m-Terphenyl o-Terphenyl	Sample number(s): 6156142-6156148,6156150 UNSPK: 6156146 102 107 75-125 5 20 106 111 75-125 4 20								

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

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
p-Terphenyl	101	106	75-125	5	20				
Batch number: 103411026001A	Sample number(s): 6156142-6156150 UNSPK: 6156146 BKG: 6156146								
Antimony	53*	53*	75-125	0	20	0.129 J	0.0902 J	35* (1)	20
Arsenic	184*	334*	75-125	25*	20	6.43	8.24	25*	20
Beryllium	120	153*	75-125	13	20	0.886	1.06	18	20
Cadmium	139*	155*	75-125	10	20	0.0441 J	0.0597 J	30* (1)	20
Chromium	157*	196*	75-125	9	20	22.0	28.0	24*	20
Cobalt	113	130*	75-125	12	20	6.16	9.06	38*	20
Copper	130*	151*	75-125	9	20	8.13	10.4	24*	20
Lead	187*	337*	75-125	31*	20	6.59	8.83	29*	20
Nickel	138*	161*	75-125	8	20	9.96	12.9	26*	20
Silver	135*	147*	75-125	8	20	0.0234 J	0.0239 J	2 (1)	20
Thallium	141*	167*	75-125	10	20	0.347	0.280	21* (1)	20
Vanadium	206*	321*	75-125	18	20	37.8	49.7	27*	20
Zinc	193 (2)	309 (2)	75-125	16	20	43.9	55.3	23*	20
Batch number: 103411026001B	Sample number(s): 6156142-6156150 UNSPK: 6156146 BKG: 6156146								
Selenium	123	137*	75-125	9	20	0.164 J	0.216 J	28* (1)	20
Batch number: 103411026001C	Sample number(s): 6156142-6156150 UNSPK: 6156146 BKG: 6156146								
Molybdenum	124	143*	75-125	12	20	0.670	0.740	10	20
Batch number: 103411026001D	Sample number(s): 6156142-6156150 UNSPK: 6156146 BKG: 6156146								
Barium	289 (2)	549 (2)	75-125	16	20	122	150	21*	20
Batch number: 103415708003	Sample number(s): 6156142-6156150 UNSPK: 6156146 BKG: 6156146								
Aluminum	1774 (2)	1699 (2)	75-125	1	20	18,500	18,700	1	20
Boron	92	92	84-115	0	20	0.856 U	0.864 U	0 (1)	20
Calcium	106 (2)	210 (2)	75-125	12	20	2,790	2,660	5	20
Iron	1136 (2)	535 (2)	75-125	3	20	22,900	23,500	3	20
Lithium	99	100	82-114	0	20	25.9	24.5	6	20
Magnesium	116 (2)	138 (2)	75-125	1	20	4,580	4,380	4	20
Manganese	89	111	75-125	5	20	143	146	2	20
Phosphorus	108	112	75-125	1	20	125	136	8	20
Potassium	131*	135*	75-125	1	20	1,820	1,770	3	20
Sodium	92	92	75-125	0	20	548	524	4	20
Strontium	94	94	75-115	1	20	22.5	22.8	1	20
Tin	98	99	80-110	0	20	2.95 J	2.99 J	1 (1)	20
Titanium	349 (2)	355 (2)	75-125	0	20	1,220	1,250	2	20
Zirconium	102	104	75-125	1	20	1.19 J	1.77 J	39* (1)	20
Batch number: 103415711003	Sample number(s): 6156142-6156150 UNSPK: 6156146 BKG: 6156146								
Mercury	95	97	65-135	1	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 10342102202B	Sample number(s): 6156142-6156147, 6156149-6156150 UNSPK: 6156146 BKG: 6156146								
21a Cyanide by 9012B	109		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 10344344201B	Sample number(s): 6156146-6156147, 6156149 UNSPK: 6156146 BKG: 6156146								
11a Anions by 300.0 - Fluoride	170*		80-120			4.5	8.7	62* (1)	20
11a Anions by 300.0 - Nitrate	147*		80-120			1.5	2.6	51* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

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
Batch number: 10348348201A	Sample number(s): 6156142-6156145, 6156150 UNSPK: P154851 BKG: P154851								
11a Anions by 300.0 - Fluoride	97		80-120			0.80 U	0.87 J	200* (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			2.7	2.7	1 (1)	20
Batch number: 10349349201B	Sample number(s): 6156142-6156147, 6156149-6156150 UNSPK: 6156146 BKG: 6156146								
7a Perchlorate EPA 314.0	85		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10355243201A	Sample number(s): 6156142-6156147, 6156149-6156150 UNSPK: 6156146 BKG: 6156146								
3a Cr VI by EPA 7199	95		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 10340039403A	Sample number(s): 6156142-6156144 BKG: P154843								
22a pH by 9045C						7.02	7.03	0	1
Batch number: 10340039403B	Sample number(s): 6156145-6156146, 6156149-6156150 BKG: 6156146								
22a pH by 9045C						7.16	7.16	0	1
Batch number: 10340182103A	Sample number(s): 6156142-6156144 BKG: P154843								
Oxidation Reduction Potential						465	467	0	6
Batch number: 10340182103B	Sample number(s): 6156145-6156146, 6156149-6156150 BKG: 6156146								
Oxidation Reduction Potential						435	437	0	6
Batch number: 10354162401A	Sample number(s): 6156142-6156150 BKG: 6156146								
28a Total Solids by 160.3						7.8	7.5	3	20
28a Total Solids by 160.3						7.8	7.5	3	20
28a Total Solids by 160.3						7.8	7.5	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: 1a Volatile Organics EPA 8260B

Batch number: B103421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6156142	105	105	98	97
6156143	106	102	97	94
6156144	105	100	99	95
6156145	108	107	97	95
6156146	104	101	96	93
6156147	101	100	100	98
6156148	99	97	100	98
6156150	104	101	96	93
Blank	104	103	97	95
LCS	102	103	99	101
MS	101	100	100	98
MSD	99	97	100	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

Surrogate Quality Control

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

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103351AC
Toluene-d8

6156151	102
Blank	100
LCS	100
MS	102
MSD	101

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103402BA
Toluene-d8

6156142	99
6156143	98
6156144	98
6156145	97
6156146	99
6156147	99
6156148	99
Blank	97
LCS	99
LCSD	100
MS	99
MSD	99

Limits: 70-130

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103402BB
Toluene-d8

6156150	99
Blank	98
LCS	98
LCSD	99
MS	99
MSD	99

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103422AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6156151	101	101	105	100
Blank	101	99	107	100
LCS	102	101	107	101
LCSD	103	105	108	102

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

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

Surrogate Quality Control

Analysis Name: 19a NDMA by 1625C
Batch number: 10341SLB026
N-Nitrosodimethylamine-
d6

6156142	101
6156143	91
6156144	92
6156145	89
6156146	97
6156147	96
6156148	91
6156150	85
Blank	97
LCS	90
MS	96
MSD	91

Limits: 50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10341SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6156142	82	85	94	72	79	80
6156143	76	81	92	71	77	80
6156144	77	80	83	70	76	77
6156145	86	89	91	75	86	85
6156146	77	82	94	74	83	79
6156147	94	97	101	84	89	88
6156148	89	91	99	82	88	84
6156150	86	91	87	78	86	86
Blank	77	82	93	74	83	80
LCS	92	93	100	81	90	85
MS	94	97	101	84	89	88
MSD	89	91	99	82	88	84

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

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10342SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6156142	88	79	78
6156143	84	79	78
6156144	84	77	75
6156145	93	82	84
6156146	88	83	86
6156147	88	83	84
6156148	86	78	78
6156150	86	79	83
Blank	84	79	78
LCS	86	80	80
MS	88	83	84
MSD	86	78	78

Limits: 40-130 45-130 45-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Gas
Batch number: 10340B34A
Trifluorotoluene-F

6156142	87
6156143	85
6156144	83
6156145	82
6156146	87
6156147	94
6156148	85
6156150	90
Blank	92
LCS	93
LCSD	99
MS	94
MSD	85

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10342A20A
Trifluorotoluene-F

6156151	84
Blank	83
LCS	120
LCSD	121
MS	117

Limits: 63-135

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103400028A
Butyraldehyde

6156142	108
6156143	109
6156144	107
6156145	111
6156146	113
6156147	107
6156148	105
6156150	93
Blank	95
LCS	96
MS	107
MSD	105

Limits: 64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103410008A
Tetrachloro-m-xylene Decachlorobiphenyl

6156142	100	84

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

Surrogate Quality Control

6156143	84	72
6156144	91	75
6156145	93	74
6156146	92	86
6156147	92	78
6156148	94	82
6156150	94	89
Blank	94	92
LCS	97	89
LCSD	97	91
MS	92	78
MSD	94	82

Limits: 53-139 45-120

Analysis Name: 20a Energetics by 8330A
Batch number: 103420004A
2-Nitro-m-xylene

6156142	109
6156143	117
6156144	126
6156145	123
6156146	123
6156147	122
6156148	115
6156150	112
Blank	115
LCS	120
LCSD	116
MS	122
MSD	115

Limits: 80-146

Analysis Name: 25a Alcohols by 8015B
Batch number: 103400012A
Acetone

6156142	107
6156143	88
6156144	102
6156145	88
6156146	92
6156147	89
6156148	94
6156150	99
Blank	91
LCS	94
MS	89
MSD	94

Limits: 42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103410017A
n-Triacontane-d62

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 02:47 PM

Group Number: 1223933

Surrogate Quality Control

6156142	95
6156143	95
6156144	89
6156145	90
6156146	96
6156147	96
6156148	102
6156150	99
Blank	98
LCS	97
MS	96
MSD	102

Limits: 50-150

Analysis Name: 27a Glycols by 8015B
Batch number: 103420001A
Tetramethylene glycol

6156142	84
6156143	84
6156144	84
6156145	76
6156146	85
6156147	105
6156148	97
6156150	82
Blank	92
LCS	106
MS	105
MSD	97

Limits: 50-119

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103420006A
Chlorobenzene Orthoterphenyl

6156142	83	90
6156143	83	91
6156144	78	85
6156145	88	93
6156146	79	86
6156147	83	90
6156148	83	90
6156150	81	86
Blank	80	88
LCS	85	90
MS	83	90
MSD	83	90

Limits: 37-125 47-145

*- 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

LC# 6156142-51 GR# 1223933

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING																								Other Instructions and Notes						
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP						VOCs/EPA 8260B	1,4-Dioxane EPA 8260S/M	SVOCS EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/60208&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C		**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																									
DUP11-SA5C-QC-120310	12.03.10	1453	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														
DUP11-SA5C-QC-120310	12.03.10	1453	soil	none	1 - 16 oz. jar														X	X		X	X	X	X			X		
DUP11-SA5C-QC-120310	12.03.10	1453	soil	none	3 - 4 oz. jars					X																X	X			
DUP11-SA5C-QC-120310	12.03.10	1453	soil	none	5 encore samplers	X	X	X																						
TB-120310	12.03.10	1330	water	HCl	4 - 40 ml vials	X	X	X																					Trip Blank	
SL-032-SA5C-SB-4.5MS	12.03.10	1445	soil	none	15 encore samplers	X	X	X																					MS/MSD	
SL-030-SA5C-SB-4.5	12.03.10	1033	soil	none	5 encore samplers	X	X	X																						
SL-030-SA5C-SB-9.5	12.03.10	1040	soil	none	5 encore samplers	X	X	X																					Possible Staining	
SL-031-SA5C-SB-9.5	12.03.10	1242	soil	none	5 encore samplers	X	X	X																					Possible Staining	
SL-031-SA5C-SB-4.5	12.03.10	1236	soil	none	5 encore samplers	X	X	X																						
SL-031-SA5C-SB-4.0-5.0	12.03.10	1240	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														
SL-031-SA5C-SB-4.0-5.0	12.03.10	1240	soil	none	1 - 16 oz. jar													X	X		X	X	X	X			X			
SL-031-SA5C-SB-4.0-5.0	12.03.10	1240	soil	none	3 - 4 oz. jars					X																X	X			
						Shelly Samantoni 12/3/10																								
Relinquished by: (Signature) Shelly Samantoni						Date/Time 12.03.10 1630		Received for Laboratory by: (Signature) Laura Lapp				Date/Time 12/4/10 1000												Laboratory: Lancaster Laboratories, Inc.						
Received by: (Signature) FedEx						Date/Time		Airbill No. 00732992														Cooler 2								
								Tracking Number 869514318380																						

Acet #

LL # 6156142-51

GR # 1223933

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						Other Instructions and Notes																								
NOTES:																														
*Primary Analyses as indicated on sample labels																														
**Secondary Analyses as indicated on sample labels																														
@ For hex chrome analysis, lab will measure pH and ORP																														
Samplers: (Signature)																														
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCS EPA 8270C & PAHs 8270 SIM	TPH-GR0 EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/60208&7471A	*Hex Chrome EPA 7199	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B	
SL-030-SA5C-SB-9.0-10.0	12.03.10	1040	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														Possible Staining
SL-030-SA5C-SB-9.0-10.0	12.03.10	1040	soil	none	1 - 16 oz. jar															X	X		X	X	X	X			X	Possible Staining
SL-030-SA5C-SB-9.0-10.0	12.03.10	1040	soil	none	3 - 4 oz. jars				X																		X	X		Possible Staining
SL-030-SA5C-SB-4.0-5.0	12.03.10	1036	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														
SL-030-SA5C-SB-4.0-5.0	12.03.10	1036	soil	none	1 - 16 oz. jar															X	X		X	X	X	X			X	
SL-030-SA5C-SB-4.0-5.0	12.03.10	1036	soil	none	3 - 4 oz. jars				X																	X	X			
SL-031-SA5C-SB-9.0-10.0	12.03.10	1244	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X	X													Possible Staining
SL-031-SA5C-SB-9.0-10.0	12.03.10	1244	soil	none	1 - 16 oz. jar															X	X		X	X	X	X			X	Possible Staining
SL-031-SA5C-SB-9.0-10.0	12.03.10	1244	soil	none	3 - 4 oz. jars				X																	X	X			Possible Staining
<i>Shelly Samantoni</i> 12/3/10																														
Relinquished by: (Signature)						Date/Time		Received for Laboratory by: (Signature)						Date/Time		Laboratory:														
<i>Shelly Samantoni</i>						12.03.10 1630		<i>Kevin J. Lapp</i>						12/14/10 1000		Lancaster Laboratories, Inc.														
Received by: (Signature)						Date/Time		AIDIN No.						Cooler 3																
<i>FedEx</i>								00732992																						
								Tracking Number 869514318391																						

CHAIN OF CUSTODY RECORD

[illegible]

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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 $\geq IDL$
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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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

January 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/07/2010

Group Number: 1224161

SDG: DE029

PO Number: 1203-004-007-AL

Release Number: Tracking #11667

State of Sample Origin: CA

Client Sample DescriptionDUP12-SA5C-QC-120610 Soil
SL-018-SA5C-SB-4.0-5.0 Soil
SL-028-SA5C-SB-4.0-5.0 Soil
SL-028-SA5C-SB-4.0-5.0MS Soil
SL-028-SA5C-SB-4.0-5.0MSD Soil
SL-028-SA5C-SB-4.0-5.0DUP Soil
SL-024-SA5C-SB-4.0-5.0 Soil
TB-120610 Water
SL-025-SA5C-SB-4.0-5.0 Soil
SL-025-SA5C-SB-9.0-10.0 Soil
SL-024-SA5C-SB-9.0-10.0 SoilLancaster Labs (LLI) #6157193
6157194
6157195
6157196
6157197
6157198
6157199
6157200
6157201
6157202
6157203

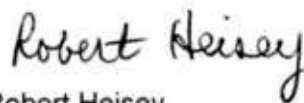
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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

Attn: Todd Burgesser

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

Respectfully Submitted,



Robert Heisey
Senior Specialist

Sample Description: DUP12-SA5C-QC-120610 Soil
SSFL Area IV Collocated Soil Sampling
DUP12-SA5C-QC-120610

LLI Sample # SW 6157193
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:57 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

DUP12 SDG#: DE029-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4 J	6.9	8.2		0.9
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.3 U	1.3	8.2		0.9
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51 U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51 U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	0.53 J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.9

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

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

Sample Description: DUP12-SA5C-QC-120610 Soil
SSFL Area IV Collocated Soil Sampling
DUP12-SA5C-QC-120610

LLI Sample # SW 6157193
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:57 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

DUP12 SDG#: DE029-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1		0.9
06192	Toluene	108-88-3	0.08 U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.1		0.9
06192	o-Xylene	95-47-6	0.17 U	0.17	4.1		0.9
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1 U	5.1	15		22.56
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	168	19.0	37.9		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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

Sample Description: DUP12-SA5C-QC-120610 Soil
SSFL Area IV Collocated Soil Sampling
DUP12-SA5C-QC-120610

LLI Sample # SW 6157193
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:57 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

DUP12 SDG#: DE029-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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
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	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	0.58	J 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	2.8	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.0	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.3	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J 0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J 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	3.6	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	17	J 6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U 6.8	20		1
10138	Fluoranthene	206-44-0	6.7	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	0.86	J 0.76	1.9		1

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

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

Sample Description: DUP12-SA5C-QC-120610 Soil
SSFL Area IV Collocated Soil Sampling
DUP12-SA5C-QC-120610

LLI Sample # SW 6157193
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:57 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

DUP12 SDG#: DE029-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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	1.4 J	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	7.0	0.76	1.9		1
10138	Pyrene	129-00-0	5.6	0.76	1.9		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1		21.7
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85 U	85	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57 U	57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	57 U	57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	57 U	57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	57 U	57	170	10000000	1
10132	HMX	2691-41-0	140 U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	57 U	57	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	170	10000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,400	10000000	1
10132	RDX	121-82-4	71 U	71	170	10000000	1
10132	Tetryl	479-45-8	87 U	87	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	57 U	57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	57 U	57	170	10000000	1

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

Sample Description: DUP12-SA5C-QC-120610 Soil
SSFL Area IV Collocated Soil Sampling
DUP12-SA5C-QC-120610

LLI Sample # SW 6157193
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:57 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

DUP12 SDG#: DE029-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A 50-00-0	680 U	680	1,700	ug/kg	1
Pesticides/PCBs							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8	ug/kg	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8	ug/kg	1
10225	Aroclor 5460	11126-42-4	2.5 J	1.1	3.8	ug/kg	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	1.9	ug/kg	1
10225	PCB-1221	11104-28-2	0.57 U	0.57	1.9	ug/kg	1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9	ug/kg	1
10225	PCB-1242	53469-21-9	0.57 U	0.57	1.9	ug/kg	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	1.9	ug/kg	1
10225	PCB-1254	11097-69-1	0.71 J	0.38	1.9	ug/kg	1
10225	PCB-1260	11096-82-5	1.6 J	0.38	1.9	ug/kg	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	1.9	ug/kg	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	1.9	ug/kg	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
10199	EFH (C12-C14)	n.a.	0.46 U	0.46	1.4	mg/kg	1
10199	EFH (C15-C20)	n.a.	0.49 J	0.46	1.4	mg/kg	1
10199	EFH (C21-C30)	n.a.	11	0.46	1.4	mg/kg	1
10199	EFH (C30 - C40)	n.a.	28	0.46	1.4	mg/kg	1
10199	EFH (C8-C11)	n.a.	0.46 U	0.46	1.4	mg/kg	1
GC Miscellaneous							
10501	Ethanol	64-17-5	110 U	110	570	ug/kg	1
10501	Isopropanol	67-63-0	110 U	110	570	ug/kg	1
10501	Methanol	67-56-1	110 U	110	570	ug/kg	1
GC Miscellaneous							
08283	Diethylene glycol	111-46-6	5.7 U	5.7	14	mg/kg	1
08283	Ethylene glycol	107-21-1	5.7 U	5.7	14	mg/kg	1
08283	Propylene glycol	57-55-6	5.7 U	5.7	14	mg/kg	1
Terphenyls							
10318	m-Terphenyl	92-06-8	1.7 U	1.7	4.0	mg/kg	1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	4.0	mg/kg	1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	4.0	mg/kg	1
Metals							
01643	Aluminum	7429-90-5	18,100	5.56	22.1	mg/kg	1
07914	Boron	7440-42-8	11.3	0.983	5.52	mg/kg	1
01650	Calcium	7440-70-2	5,120	6.77	22.1	mg/kg	1
01654	Iron	7439-89-6	21,200	5.20	22.1	mg/kg	1

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

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

Sample Description: DUP12-SA5C-QC-120610 Soil
SSFL Area IV Collocated Soil Sampling
DUP12-SA5C-QC-120610

LLI Sample # SW 6157193
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:57 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

DUP12 SDG#: DE029-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	22.2	0.24	2.2		1
01657	Magnesium	7439-95-4	4,430	2.81	11.0		1
06958	Manganese	7439-96-5	277	0.0862	0.552		1
10145	Phosphorus	7723-14-0	304	0.619	11.0		1
01662	Potassium	7440-09-7	2,820	19.9	55.2		1
01667	Sodium	7440-23-5	211	41.2	110		1
07968	Strontium	7440-24-6	24.1	0.0685	0.552		1
06969	Tin	7440-31-5	2.43 J	1.10	11.0		1
06970	Titanium	7440-32-6	1,190	0.839	2.21		2
10146	Zirconium	7440-67-7	1.69 J	0.928	5.52		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0880 J	0.0669	0.223		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.43	0.0669	0.446		2
06126	Barium	7440-39-3	99.6	0.120	0.446		2
06127	Beryllium	7440-41-7	0.766	0.0178	0.112		2
06128	Cadmium	7440-43-9	0.189	0.0402	0.112		2
06131	Chromium	7440-47-3	24.8	0.134	0.446		2
06132	Cobalt	7440-48-4	6.88	0.0223	0.112		2
06133	Copper	7440-50-8	10.9	0.0736	0.446		2
06135	Lead	7439-92-1	8.03	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.520	0.0558	0.112		2
06139	Nickel	7440-02-0	12.8	0.112	0.446		2
06141	Selenium	7782-49-2	0.123 J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0426 J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.309	0.0335	0.112		2
06148	Vanadium	7440-62-2	48.4	0.0245	0.112		2
06149	Zinc	7440-66-6	59.7	0.625	3.35		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0052 J	0.0031	0.108		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6	0.91	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1

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

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

Sample Description: DUP12-SA5C-QC-120610 Soil
SSFL Area IV Collocated Soil Sampling
DUP12-SA5C-QC-120610

LLI Sample # SW 6157193
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:57 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

DUP12 SDG#: DE029-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	366	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.19	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	12.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103421BA	12/08/2010 07:10	Holly Berry	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 11:20	Jason M Long	22.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 19:45	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034123207	12/07/2010 20:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034123207	12/07/2010 20:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034123207	12/07/2010 19:43	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLF026	12/24/2010 09:07	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 08:10	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/11/2010 23:28	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLF026	12/12/2010 22:30	Patricia L Foreman	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/09/2010 22:55	Marie D John	21.7
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 19:42	Lois E Hiltz	n.a.

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Sample Description: DUP12-SA5C-QC-120610 Soil
SSFL Area IV Collocated Soil Sampling
DUP12-SA5C-QC-120610

LLI Sample # SW 6157193
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:57 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

DUP12 SDG#: DE029-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	20a Energetics by 8330A	SW-846 8330A	1	103420005A	12/15/2010 01:53	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 20:09	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/14/2010 20:50	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420005A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103540015A	12/22/2010 01:38	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 12:17	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420002A	12/09/2010 19:34	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/13/2010 19:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103540015A	12/20/2010 18:55	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420002A	12/08/2010 07:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/14/2010 11:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/14/2010 11:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/14/2010 11:59	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 16:56	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 11:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 11:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2

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

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

Sample Description: DUP12-SA5C-QC-120610 Soil
SSFL Area IV Collocated Soil Sampling
DUP12-SA5C-QC-120610

LLI Sample # SW 6157193
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:57 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

DUP12 SDG#: DE029-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 11:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 11:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201A	12/15/2010 17:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201A	12/15/2010 17:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 19:48	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243201A	12/30/2010 13:05	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201A	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182102A	12/08/2010 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039402A	12/08/2010 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243201A	12/25/2010 20:45	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10356162401A	12/22/2010 20:45	Scott W Freisher	1

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

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

Sample Description: SL-018-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5C-SB-4.0-5.0

LLI Sample # SW 6157194
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 13:37 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

01845 SDG#: DE029-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0 U	7.0	8.4		0.92
06192	Benzene	71-43-2	0.10 U	0.10	4.2		0.92
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.2		0.92
06192	Bromochloromethane	74-97-5	0.35 U	0.35	4.2		0.92
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.2		0.92
06192	Bromoform	75-25-2	0.42 U	0.42	4.2		0.92
06192	Bromomethane	74-83-9	0.26 U	0.26	4.2		0.92
06192	2-Butanone	78-93-3	1.3 U	1.3	8.4		0.92
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.2		0.92
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.2		0.92
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.2		0.92
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.2		0.92
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.2		0.92
06192	Chloroethane	75-00-3	0.14 U	0.14	4.2		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.2		0.92
06192	Chloroform	67-66-3	0.13 U	0.13	4.2		0.92
06192	Chloromethane	74-87-3	0.35 U	0.35	4.2		0.92
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.2		0.92
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.2		0.92
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73 U	0.73	4.2		0.92
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.2		0.92
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.2		0.92
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.2		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.2		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.2		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.2		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.2		0.92
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.2		0.92
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.2		0.92
06192	1,1-Dichloroethene	75-35-4	0.41 U	0.41	4.2		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.2		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.2		0.92
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.2		0.92
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.2		0.92
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.2		0.92
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.2		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.2		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.2		0.92
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.2		0.92
06192	Freon 113	76-13-1	0.12 U	0.12	4.2		0.92
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2		0.92
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.2		0.92
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.4		0.92
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.2		0.92
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.2		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.2		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41 U	0.41	8.4		0.92
06192	Methylene Chloride	75-09-2	0.47 J	0.25	4.2		0.92
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.2		0.92

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

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Sample Description: SL-018-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5C-SB-4.0-5.0

LLI Sample # SW 6157194
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 13:37 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

01845 SDG#: DE029-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.2		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.2		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.2		0.92
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.2		0.92
06192	Toluene	108-88-3	0.08 U	0.08	4.2		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.2		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.2		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.2		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.2		0.92
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.2		0.92
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.2		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.35 U	0.35	4.2		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.42 U	0.42	4.2		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.2		0.92
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.2		0.92
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.2		0.92
06192	o-Xylene	95-47-6	0.18 U	0.18	4.2		0.92
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1 U	5.1	15		22.24
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	37.7 J	19.0	38.0		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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

Sample Description: SL-018-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5C-SB-4.0-5.0

LLI Sample # SW 6157194
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 13:37 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

01845 SDG#: DE029-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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
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	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	0.94	J 0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J 0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	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	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	21		1
10138	Chrysene	218-01-9	0.77	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	21		1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U 6.8	21		1
10138	Fluoranthene	206-44-0	0.91	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

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Sample Description: SL-018-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5C-SB-4.0-5.0

LLI Sample # SW 6157194
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 13:37 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

01845 SDG#: DE029-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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	21		1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9		1
10138	Pyrene	129-00-0	0.80 J	0.76	1.9		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.1		23.41
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U 86	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U 57	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	280	57	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	57	U 57	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	57	U 57	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	430	1000000 0	1
10132	Nitrobenzene	98-95-3	57	U 57	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,400	1000000 0	1
10132	RDX	121-82-4	71	U 71	170	1000000 0	1
10132	Tetryl	479-45-8	87	U 87	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U 57	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U 57	170	1000000 0	1

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Sample Description: SL-018-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5C-SB-4.0-5.0

LLI Sample # SW 6157194
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	680 U	680	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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	0.69 J	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.79 J	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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46 U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46 U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	19	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	50	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46 U	0.46	1.4		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	110	570		1
10501	Isopropanol	67-63-0	110 U	110	570		1
10501	Methanol	67-56-1	110 U	110	570		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7 U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7 U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7 U	5.7	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	4.0		1
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,000	5.68	22.6		1
07914	Boron	7440-42-8	9.54	1.00	5.64		1
01650	Calcium	7440-70-2	3,430	6.92	22.6		1
01654	Iron	7439-89-6	19,900	5.32	22.6		1

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Sample Description: SL-018-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5C-SB-4.0-5.0

LLI Sample # SW 6157194
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 13:37 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

01845 SDG#: DE029-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	21.2	0.25	2.3		1
01657	Magnesium	7439-95-4	4,110	2.87	11.3		1
06958	Manganese	7439-96-5	259	0.0881	0.564		1
10145	Phosphorus	7723-14-0	345	0.632	11.3		1
01662	Potassium	7440-09-7	2,480	20.3	56.4		1
01667	Sodium	7440-23-5	266	42.1	113		1
07968	Strontium	7440-24-6	22.6	0.0700	0.564		1
06969	Tin	7440-31-5	2.41 J	1.13	11.3		1
06970	Titanium	7440-32-6	1,170	0.858	2.26		2
10146	Zirconium	7440-67-7	1.02 J	0.948	5.64		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0739 J	0.0671	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	4.52	0.0671	0.447		2
06126	Barium	7440-39-3	94.3	0.121	0.447		2
06127	Beryllium	7440-41-7	0.585	0.0179	0.112		2
06128	Cadmium	7440-43-9	0.112 J	0.0402	0.112		2
06131	Chromium	7440-47-3	19.5	0.134	0.447		2
06132	Cobalt	7440-48-4	5.03	0.0224	0.112		2
06133	Copper	7440-50-8	8.00	0.0738	0.447		2
06135	Lead	7439-92-1	6.00	0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.572	0.0559	0.112		2
06139	Nickel	7440-02-0	10.4	0.112	0.447		2
06141	Selenium	7782-49-2	0.153 J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0335 J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.269	0.0335	0.112		2
06148	Vanadium	7440-62-2	36.8	0.0246	0.112		2
06149	Zinc	7440-66-6	59.9	0.626	3.35		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0045 J	0.0032	0.111		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4 J	0.91	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1

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SSFL Area IV Collocated Soil Sampling
SL-018-SA5C-SB-4.0-5.0

LLI Sample # SW 6157194
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 13:37 by PH

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Submitted: 12/07/2010 09:45

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01845 SDG#: DE029-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	368	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.03	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	12.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-018-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	B103421BA	12/08/2010 07:33	Holly Berry	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 11:40	Jason M Long	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 21:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:39	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034123207	12/07/2010 22:39	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034123207	12/07/2010 21:44	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLF026	12/24/2010 09:24	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 08:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 00:01	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLF026	12/12/2010 22:30	Patricia L Foreman	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/09/2010 23:32	Marie D John	23.41

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 21:43	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420005A	12/15/2010 02:36	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 20:18	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/14/2010 21:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420005A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B	SW-846 8015B	1	103540015A	12/22/2010 03:18	Heather E Williams	1
10501	Oil/Diesel	modified					
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 12:32	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B	1	103420002A	12/09/2010 20:22	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/14/2010 02:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103540015A	12/20/2010 18:55	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420002A	12/08/2010 07:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/14/2010 12:02	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/14/2010 12:02	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/14/2010 12:13	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:07	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 11:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 11:34	Choon Y Tian	2

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SL-018-SA5C-SB-4.0-5.0

LLI Sample # SW 6157194
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01845 SDG#: DE029-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 11:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 11:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201A	12/15/2010 17:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201A	12/15/2010 17:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 20:36	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243201A	12/30/2010 13:22	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201A	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182102A	12/08/2010 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039402A	12/08/2010 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243201A	12/25/2010 20:45	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10356162401A	12/22/2010 20:45	Scott W Freisher	1

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

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

Sample Description: SL-028-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157195
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3 U	7.3	8.7		0.98
06192	Benzene	71-43-2	0.11 U	0.11	4.3		0.98
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3		0.98
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.3		0.98
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3		0.98
06192	Bromoform	75-25-2	0.43 U	0.43	4.3		0.98
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3		0.98
06192	2-Butanone	78-93-3	1.3 U	1.3	8.7		0.98
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3		0.98
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.3		0.98
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3		0.98
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3		0.98
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3		0.98
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.3		0.98
06192	Chloroform	67-66-3	0.13 U	0.13	4.3		0.98
06192	Chloromethane	74-87-3	0.36 U	0.36	4.3		0.98
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3		0.98
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3		0.98
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76 U	0.76	4.3		0.98
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.3		0.98
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3		0.98
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3		0.98
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3		0.98
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3		0.98
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.3		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3		0.98
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3		0.98
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3		0.98
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3		0.98
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3		0.98
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.3		0.98
06192	Freon 113	76-13-1	0.12 U	0.12	4.3		0.98
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4		0.98
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3		0.98
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.7		0.98
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.3		0.98
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.3		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.7		0.98
06192	Methylene Chloride	75-09-2	0.87 J	0.26	4.3		0.98
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.3		0.98

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Sample Description: SL-028-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157195
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.3		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.3		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.3		0.98
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.3		0.98
06192	Toluene	108-88-3	0.09 U	0.09	4.3		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.3		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.3		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.3		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.3		0.98
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.3		0.98
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.3		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.3		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.3		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.3		0.98
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.3		0.98
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.3		0.98
06192	o-Xylene	95-47-6	0.18 U	0.18	4.3		0.98
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.8 U	4.8	14		21.82
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	51.2	18.4	36.8		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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

Sample Description: SL-028-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157195
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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
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	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	1.1	J 0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.5	J 0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.6	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.96	J 0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	J 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	1.7	J 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	10	J 6.6	20		1
10138	Fluoranthene	206-44-0	1.7	J 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

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

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Sample Description: SL-028-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157195
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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	6.6 U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.8		1
10138	Pyrene	129-00-0	1.7 J	0.74	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1		21.93
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83 U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55 U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	260 U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55 U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55 U	55	170	10000000	1
10132	HMX	2691-41-0	140 U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55 U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	170	10000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69 U	69	170	10000000	1
10132	Tetryl	479-45-8	84 U	84	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55 U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55 U	55	170	10000000	1

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Sample Description: SL-028-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157195
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	660 U	660	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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	7.0	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	0.67 J	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.1 J	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.3 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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44 U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44 U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	8.4	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	21	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44 U	0.44	1.3		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	130 J	110	550		1
10501	Isopropanol	67-63-0	110 U	110	550		1
10501	Methanol	67-56-1	110 U	110	550		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5 U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5 U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5 U	5.5	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	3.9		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88 U	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	15.8	0.88	1.7		1

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

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Sample Description: SL-028-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157195
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U ug/kg	9.9 ug/kg	33.1 ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U mg/kg	0.22 mg/kg	1.1 mg/kg	mg/kg	1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.20 U mg/kg	0.20 mg/kg	0.55 mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	380 mV	10.0 mV	10.0 mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.00 Std. Units	0.0100 Std. Units	0.0100 Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Total Solids by 160.3	n.a.	9.4 %	0.50 %	0.50 %	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-028-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	B103421BA	12/08/2010 07:56	Holly Berry	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 11:59	Jason M Long	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 21:52	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:39	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034123207	12/07/2010 22:39	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034123207	12/07/2010 21:50	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLF026	12/24/2010 08:16	Timothy J Trees	1

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Sample Description: SL-028-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157195
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03BKG

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	10344SLA026	12/14/2010 06:55	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/11/2010 21:48	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLF026	12/12/2010 22:30	Patricia L Foreman	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 00:08	Marie D John	21.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 21:49	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420005A	12/15/2010 03:18	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 20:28	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/14/2010 21:27	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420005A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103540015A	12/22/2010 02:03	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 12:46	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420002A	12/09/2010 20:38	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/14/2010 03:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103540015A	12/20/2010 18:55	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420002A	12/08/2010 07:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 17:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201B	12/15/2010 17:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 18:12	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243201A	12/30/2010 13:38	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1

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Sample Description: SL-028-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157195
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182102B	12/08/2010 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039402A	12/08/2010 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243201A	12/25/2010 20:45	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10356162401A	12/22/2010 20:45	Scott W Freisher	1

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Sample Description: SL-028-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157196
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	130	6.7	8.0		0.91
06192	Benzene	71-43-2	23	0.10	4.0		0.91
06192	Bromobenzene	108-86-1	21	0.13	4.0		0.91
06192	Bromochloromethane	74-97-5	21	0.33	4.0		0.91
06192	Bromodichloromethane	75-27-4	21	0.08	4.0		0.91
06192	Bromoform	75-25-2	19	0.40	4.0		0.91
06192	Bromomethane	74-83-9	16	0.25	4.0		0.91
06192	2-Butanone	78-93-3	110	1.2	8.0		0.91
06192	n-Butylbenzene	104-51-8	20	0.12	4.0		0.91
06192	sec-Butylbenzene	135-98-8	21	0.06	4.0		0.91
06192	tert-Butylbenzene	98-06-6	21	0.16	4.0		0.91
06192	Carbon Tetrachloride	56-23-5	23	0.14	4.0		0.91
06192	Chlorobenzene	108-90-7	21	0.11	4.0		0.91
06192	Chloroethane	75-00-3	17	0.13	4.0		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.30	4.0		0.91
06192	Chloroform	67-66-3	23	0.12	4.0		0.91
06192	Chloromethane	74-87-3	17	0.33	4.0		0.91
06192	2-Chlorotoluene	95-49-8	21	0.14	4.0		0.91
06192	4-Chlorotoluene	106-43-4	21	0.14	4.0		0.91
06192	Chlorotrifluoroethene	79-38-9	31	0.47	4.7		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.70	4.0		0.91
06192	Dibromochloromethane	124-48-1	20	0.20	4.0		0.91
06192	1,2-Dibromoethane	106-93-4	19	0.17	4.0		0.91
06192	Dibromomethane	74-95-3	20	0.24	4.0		0.91
06192	1,2-Dichlorobenzene	95-50-1	20	0.09	4.0		0.91
06192	1,3-Dichlorobenzene	541-73-1	20	0.12	4.0		0.91
06192	1,4-Dichlorobenzene	106-46-7	20	0.16	4.0		0.91
06192	Dichlorodifluoromethane	75-71-8	14	0.12	4.0		0.91
06192	1,1-Dichloroethane	75-34-3	23	0.10	4.0		0.91
06192	1,2-Dichloroethane	107-06-2	21	0.15	4.0		0.91
06192	1,1-Dichloroethene	75-35-4	24	0.39	4.0		0.91
06192	cis-1,2-Dichloroethene	156-59-2	23	0.19	4.0		0.91
06192	trans-1,2-Dichloroethene	156-60-5	23	0.12	4.0		0.91
06192	1,2-Dichloropropane	78-87-5	21	0.17	4.0		0.91
06192	1,3-Dichloropropane	142-28-9	20	0.08	4.0		0.91
06192	2,2-Dichloropropane	594-20-7	22	0.17	4.0		0.91
06192	1,1-Dichloropropene	563-58-6	23	0.13	4.0		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.16	4.0		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.17	4.0		0.91
06192	Ethylbenzene	100-41-4	21	0.06	4.0		0.91
06192	Freon 113	76-13-1	22	0.11	4.0		0.91
06192	Freon 133a	75-88-7	21	0.47	4.7		0.85
06192	Hexachlorobutadiene	87-68-3	15	0.14	4.0		0.91
06192	2-Hexanone	591-78-6	58	1.6	8.0		0.91
06192	Isopropylbenzene	98-82-8	21	0.06	4.0		0.91
06192	p-Isopropyltoluene	99-87-6	21	0.11	4.0		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.21	4.0		0.91
06192	4-Methyl-2-pentanone	108-10-1	64	0.39	8.0		0.91
06192	Methylene Chloride	75-09-2	21	0.24	4.0		0.91
06192	n-Propylbenzene	103-65-1	22	0.07	4.0		0.91

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Sample Description: SL-028-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157196
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	21	0.10	4.0		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	21	0.11	4.0		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	19	0.23	4.0		0.91
06192	Tetrachloroethene	127-18-4	23	0.20	4.0		0.91
06192	Toluene	108-88-3	22	0.08	4.0		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	15	0.14	4.0		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	16	0.18	4.0		0.91
06192	1,1,1-Trichloroethane	71-55-6	23	0.20	4.0		0.91
06192	1,1,2-Trichloroethane	79-00-5	20	0.27	4.0		0.91
06192	Trichloroethene	79-01-6	22	0.15	4.0		0.91
06192	Trichlorofluoromethane	75-69-4	20	0.29	4.0		0.91
06192	1,2,3-Trichloropropane	96-18-4	19	0.33	4.0		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	21	0.40	4.0		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	21	0.10	4.0		0.91
06192	Vinyl Chloride	75-01-4	18	0.20	4.0		0.91
06192	m+p-Xylene	179601-23-1	43	0.17	4.0		0.91
06192	o-Xylene	95-47-6	21	0.17	4.0		0.91
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120	5.3	16		23.9
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	813	18.4	36.8		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800	18	180		1
04688	Acenaphthylene	208-96-8	1,800	18	180		1
04688	Aniline	62-53-3	970	180	550		1
04688	Anthracene	120-12-7	1,800	18	180		1
04688	Benzidine	92-87-5	2,800	J 1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,800	18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,900	18	180		1
04688	Benzoic acid	65-85-0	1,200	180	550		1
04688	Benzyl alcohol	100-51-6	1,800	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	18	180		1
04688	Butylbenzylphthalate	85-68-7	1,900	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800	18	180		1
04688	Carbazole	86-74-8	1,800	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	37	180		1
04688	4-Chloroaniline	106-47-8	950	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400	18	180		1
04688	2-Chlorophenol	95-57-8	1,800	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	37	180		1

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Sample Description: SL-028-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157196
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,900	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	18	180		1
04688	Dibenzofuran	132-64-9	1,800	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	920	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,800	18	180		1
04688	Diethylphthalate	84-66-2	1,800	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800	37	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000	37	180		1
04688	Dimethylphthalate	131-11-3	1,800	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,100	J 740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	18	370		1
04688	Fluoranthene	206-44-0	1,800	18	180		1
04688	Fluorene	86-73-7	1,800	18	180		1
04688	Hexachlorobenzene	118-74-1	1,700	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,500	180	550		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	1,700	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180		1
04688	2-Methylphenol	95-48-7	1,800	37	180		1
04688	4-Methylphenol	106-44-5	1,800	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	1,700	18	180		1
04688	3-Nitroaniline	99-09-2	1,700	37	180		1
04688	4-Nitroaniline	100-01-6	1,300	74	180		1
04688	Nitrobenzene	98-95-3	1,700	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,400	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	18	180		1
04688	Pentachlorophenol	87-86-5	1,100	180	550		1
04688	Phenanthrene	85-01-8	1,800	18	180		1
04688	Phenol	108-95-2	1,700	18	180		1

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

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157196
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Pyrene	129-00-0	2,000	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.74	1.8		1
10138	Acenaphthylene	208-96-8	34	0.37	1.8		1
10138	Anthracene	120-12-7	34	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	35	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	32	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	36	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	30	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	30	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	42	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	34	6.6	20		1
10138	Chrysene	218-01-9	34	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	31	0.74	1.8		1
10138	Diethylphthalate	84-66-2	36	6.6	20		1
10138	Dimethylphthalate	131-11-3	35	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48	6.6	20		1
10138	Fluoranthene	206-44-0	34	0.74	1.8		1
10138	Fluorene	86-73-7	35	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	33	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	30	0.74	1.8		1
10138	Naphthalene	91-20-3	32	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	33	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	42	6.6	20		1
10138	Phenanthrene	85-01-8	33	0.74	1.8		1
10138	Pyrene	129-00-0	33	0.74	1.8		1
GC Volatiles	TPH GRO	SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
	mod						
05551	9a TPH by EPA 8015B Gas	n.a.	6.2	0.2	0.9		21.04
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,900	83	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,900	55	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	2,800	55	170	1000000 0	1

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157196
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives		SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	2,800	55	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	3,000	55	170	1000000 0	1
10132	HMX	2691-41-0	2,700	140	410	1000000 0	1
10132	Nitrobenzene	98-95-3	2,800	55	170	1000000 0	1
10132	Nitroglycerin	55-63-0	62,000	1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	2,900	110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	2,900	140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	2,800	110	170	1000000 0	1
10132	PETN	78-11-5	65,000	1,100	3,300	1000000 0	1
10132	RDX	121-82-4	2,700	69	170	1000000 0	1
10132	Tetryl	479-45-8	3,000	84	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,100	55	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,900	55	170	1000000 0	1
HPLC Organics		SW-846 8315A	ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,700	660	1,700		1
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6		1
10225	PCB-1016	12674-11-2	17	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9		1
10225	PCB-1248	12672-29-6	4.8	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.5	0.36	1.9		1
10225	PCB-1260	11096-82-5	18	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.							
GC Extractable TPH		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.67 J	0.44	1.3		1

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157196
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C15-C20)	n.a.	1.3	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	4.2	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	9.0	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.52 J	0.44	1.3		1
GC Miscellaneous							
	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300	110	550		1
10501	Isopropanol	67-63-0	2,300	110	550		1
10501	Methanol	67-56-1	2,500	110	550		1
GC Miscellaneous							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	200	5.5	14		1
08283	Ethylene glycol	107-21-1	170	5.5	14		1
08283	Propylene glycol	57-55-6	210	5.5	14		1
Terphenyls							
	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.5 J	1.4	3.9		1
10318	o-Terphenyl	84-15-1	1.9 J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.5 J	1.4	3.9		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	14.9	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	20.2	0.88	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	553	9.9	33.1		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	41.1	1.1	5.5		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	5.8	0.19	0.54		1
Wet Chemistry							
	EPA 160.3 modified		%	%	%	%	
11625	28a Total Solids by 160.3	n.a.	9.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-028-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.

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157196
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MS

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	B103421BA	12/08/2010 08:18	Holly Berry	0.91
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103421BA	12/08/2010 09:03	Holly Berry	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 12:19	Jason M Long	23.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 21:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:39	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034123207	12/07/2010 22:39	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034123207	12/07/2010 21:56	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLF026	12/24/2010 08:33	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 07:20	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/11/2010 22:22	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLF026	12/12/2010 22:30	Patricia L Foreman	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 00:45	Marie D John	21.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 21:55	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420005A	12/15/2010 04:00	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 20:37	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/14/2010 21:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420005A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103540015A	12/22/2010 02:28	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 13:01	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420002A	12/09/2010 21:42	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/14/2010 07:14	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103540015A	12/20/2010 18:55	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420002A	12/08/2010 07:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1

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

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157196
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 18:00	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201B	12/15/2010 18:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 19:00	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243201A	12/30/2010 13:54	Venia B McFadden	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:43	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243201A	12/25/2010 20:45	Daniel S Smith	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10356162401A	12/22/2010 20:45	Scott W Freisher	1

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

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157197
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	140	7.2	8.6		0.97
06192	Benzene	71-43-2	24	0.11	4.3		0.97
06192	Bromobenzene	108-86-1	22	0.14	4.3		0.97
06192	Bromochloromethane	74-97-5	22	0.35	4.3		0.97
06192	Bromodichloromethane	75-27-4	22	0.09	4.3		0.97
06192	Bromoform	75-25-2	20	0.43	4.3		0.97
06192	Bromomethane	74-83-9	17	0.27	4.3		0.97
06192	2-Butanone	78-93-3	120	1.3	8.6		0.97
06192	n-Butylbenzene	104-51-8	21	0.13	4.3		0.97
06192	sec-Butylbenzene	135-98-8	23	0.06	4.3		0.97
06192	tert-Butylbenzene	98-06-6	23	0.17	4.3		0.97
06192	Carbon Tetrachloride	56-23-5	25	0.15	4.3		0.97
06192	Chlorobenzene	108-90-7	22	0.12	4.3		0.97
06192	Chloroethane	75-00-3	18	0.14	4.3		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	20	0.32	4.3		0.97
06192	Chloroform	67-66-3	23	0.13	4.3		0.97
06192	Chloromethane	74-87-3	18	0.35	4.3		0.97
06192	2-Chlorotoluene	95-49-8	23	0.15	4.3		0.97
06192	4-Chlorotoluene	106-43-4	23	0.15	4.3		0.97
06192	Chlorotrifluoroethene	79-38-9	32	0.47	4.7		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.75	4.3		0.97
06192	Dibromochloromethane	124-48-1	21	0.21	4.3		0.97
06192	1,2-Dibromoethane	106-93-4	20	0.18	4.3		0.97
06192	Dibromomethane	74-95-3	21	0.26	4.3		0.97
06192	1,2-Dichlorobenzene	95-50-1	21	0.1	4.3		0.97
06192	1,3-Dichlorobenzene	541-73-1	21	0.13	4.3		0.97
06192	1,4-Dichlorobenzene	106-46-7	21	0.17	4.3		0.97
06192	Dichlorodifluoromethane	75-71-8	15	0.13	4.3		0.97
06192	1,1-Dichloroethane	75-34-3	24	0.11	4.3		0.97
06192	1,2-Dichloroethane	107-06-2	22	0.16	4.3		0.97
06192	1,1-Dichloroethene	75-35-4	25	0.42	4.3		0.97
06192	cis-1,2-Dichloroethene	156-59-2	23	0.20	4.3		0.97
06192	trans-1,2-Dichloroethene	156-60-5	24	0.13	4.3		0.97
06192	1,2-Dichloropropane	78-87-5	22	0.18	4.3		0.97
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.3		0.97
06192	2,2-Dichloropropane	594-20-7	24	0.18	4.3		0.97
06192	1,1-Dichloropropene	563-58-6	24	0.14	4.3		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.3		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	21	0.18	4.3		0.97
06192	Ethylbenzene	100-41-4	23	0.06	4.3		0.97
06192	Freon 113	76-13-1	23	0.12	4.3		0.97
06192	Freon 133a	75-88-7	22	0.47	4.7		0.86
06192	Hexachlorobutadiene	87-68-3	15	0.15	4.3		0.97
06192	2-Hexanone	591-78-6	65	1.7	8.6		0.97
06192	Isopropylbenzene	98-82-8	23	0.06	4.3		0.97
06192	p-Isopropyltoluene	99-87-6	22	0.12	4.3		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.23	4.3		0.97
06192	4-Methyl-2-pentanone	108-10-1	69	0.42	8.6		0.97
06192	Methylene Chloride	75-09-2	23	0.26	4.3		0.97
06192	n-Propylbenzene	103-65-1	24	0.08	4.3		0.97

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

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157197
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	22	0.11	4.3		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	22	0.12	4.3		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	20	0.25	4.3		0.97
06192	Tetrachloroethene	127-18-4	24	0.21	4.3		0.97
06192	Toluene	108-88-3	23	0.09	4.3		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	16	0.15	4.3		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	17	0.19	4.3		0.97
06192	1,1,1-Trichloroethane	71-55-6	24	0.21	4.3		0.97
06192	1,1,2-Trichloroethane	79-00-5	21	0.29	4.3		0.97
06192	Trichloroethene	79-01-6	23	0.16	4.3		0.97
06192	Trichlorofluoromethane	75-69-4	20	0.31	4.3		0.97
06192	1,2,3-Trichloropropane	96-18-4	20	0.35	4.3		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	23	0.43	4.3		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	23	0.11	4.3		0.97
06192	Vinyl Chloride	75-01-4	19	0.21	4.3		0.97
06192	m+p-Xylene	179601-23-1	46	0.18	4.3		0.97
06192	o-Xylene	95-47-6	22	0.18	4.3		0.97
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	100	4.4	13		20.03
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	829	18.4	36.8		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900	18	180		1
04688	Acenaphthylene	208-96-8	2,000	18	180		1
04688	Aniline	62-53-3	1,200	180	550		1
04688	Anthracene	120-12-7	1,800	18	180		1
04688	Benzidine	92-87-5	3,500	J 1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,900	18	180		1
04688	Benzo(a)pyrene	50-32-8	1,900	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	2,000	18	180		1
04688	Benzoic acid	65-85-0	930	180	550		1
04688	Benzyl alcohol	100-51-6	1,900	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900	18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,900	18	180		1
04688	Carbazole	86-74-8	1,800	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900	37	180		1
04688	4-Chloroaniline	106-47-8	1,100	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,500	18	180		1
04688	2-Chlorophenol	95-57-8	1,900	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	37	180		1

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

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Sample Description: SL-028-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157197
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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	1,900	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,700	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,900	18	180		1
04688	Diethylphthalate	84-66-2	1,900	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,900	37	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000	37	180		1
04688	Dimethylphthalate	131-11-3	1,900	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,100	J 740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	18	370		1
04688	Fluoranthene	206-44-0	1,800	18	180		1
04688	Fluorene	86-73-7	1,900	18	180		1
04688	Hexachlorobenzene	118-74-1	1,800	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,900	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,300	180	550		1
04688	Hexachloroethane	67-72-1	1,700	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	18	180		1
04688	Isophorone	78-59-1	1,800	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,900	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180		1
04688	2-Methylphenol	95-48-7	1,900	37	180		1
04688	4-Methylphenol	106-44-5	1,900	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,900	18	180		1
04688	2-Nitroaniline	88-74-4	1,800	18	180		1
04688	3-Nitroaniline	99-09-2	1,700	37	180		1
04688	4-Nitroaniline	100-01-6	1,300	74	180		1
04688	Nitrobenzene	98-95-3	1,800	18	180		1
04688	2-Nitrophenol	88-75-5	1,800	18	180		1
04688	4-Nitrophenol	100-02-7	1,500	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	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	2,000	18	180		1
04688	Pentachlorophenol	87-86-5	1,300	180	550		1
04688	Phenanthrene	85-01-8	1,800	18	180		1
04688	Phenol	108-95-2	1,900	18	180		1

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157197
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Pyrene	129-00-0	2,000	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	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	37	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.74	1.8		1
10138	Acenaphthylene	208-96-8	36	0.37	1.8		1
10138	Anthracene	120-12-7	37	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	39	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	37	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	43	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	21	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	38	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	46	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	39	6.6	20		1
10138	Chrysene	218-01-9	38	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	26	0.74	1.8		1
10138	Diethylphthalate	84-66-2	39	6.6	20		1
10138	Dimethylphthalate	131-11-3	44	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51	6.6	20		1
10138	Fluoranthene	206-44-0	41	0.74	1.8		1
10138	Fluorene	86-73-7	37	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	25	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	35	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	31	0.74	1.8		1
10138	Naphthalene	91-20-3	34	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	35	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	53	6.6	20		1
10138	Phenanthrene	85-01-8	36	0.74	1.8		1
10138	Pyrene	129-00-0	36	0.74	1.8		1
GC Volatiles	TPH GRO	SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
	mod						
05551	9a TPH by EPA 8015B Gas	n.a.	6.9	0.2	0.9		21.04
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	3,000	83	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,900	55	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	3,000	55	170	1000000 0	1

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

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157197
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives		SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	2,800	55	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	3,000	55	170	1000000 0	1
10132	HMX	2691-41-0	2,800	140	410	1000000 0	1
10132	Nitrobenzene	98-95-3	2,800	55	170	1000000 0	1
10132	Nitroglycerin	55-63-0	63,000	1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	2,900	110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	2,900	140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	2,900	110	170	1000000 0	1
10132	PETN	78-11-5	66,000	1,100	3,300	1000000 0	1
10132	RDX	121-82-4	2,700	69	170	1000000 0	1
10132	Tetryl	479-45-8	3,000	84	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,100	55	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,900	55	170	1000000 0	1
HPLC Organics		SW-846 8315A	ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,600	660	1,700		1
Pesticides/PCBs		SW-846 8082	ug/kg	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	1.7 J	1.1	3.6		1
10225	PCB-1016	12674-11-2	17	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9		1
10225	PCB-1248	12672-29-6	4.9	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.2	0.36	1.9		1
10225	PCB-1260	11096-82-5	18	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.							
GC Extractable TPH		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.88 U	0.88	2.6		2

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

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157197
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C15-C20)	n.a.	1.6 J	0.88	2.6		2
10199	EFH (C21-C30)	n.a.	20	0.88	2.6		2
10199	EFH (C30 - C40)	n.a.	65	0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88 U	0.88	2.6		2
GC Miscellaneous		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300	110	550		1
10501	Isopropanol	67-63-0	2,300	110	550		1
10501	Methanol	67-56-1	2,500	110	550		1
GC Miscellaneous		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	200	5.5	14		1
08283	Ethylene glycol	107-21-1	170	5.5	14		1
08283	Propylene glycol	57-55-6	200	5.5	14		1
Terphenyls		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.9 J	1.7	3.9		1
10318	o-Terphenyl	84-15-1	2.0 J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.8 J	1.7	3.9		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11625	28a Total Solids by 160.3	n.a.	9.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-028-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	B103421BA	12/08/2010 08:40	Holly Berry	0.97
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103421BA	12/08/2010 09:26	Holly Berry	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 12:39	Jason M Long	20.03
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:09	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:39	Lois E Hiltz	n.a.

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

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

Sample Description: SL-028-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157197
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034123207	12/07/2010 22:40	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034123207	12/07/2010 22:06	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLF026	12/24/2010 08:50	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 07:45	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/11/2010 22:55	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLF026	12/12/2010 22:30	Patricia L Foreman	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 01:21	Marie D John	21.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:01	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420005A	12/15/2010 04:43	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 20:56	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/14/2010 23:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420005A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103540015A	12/22/2010 16:35	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 13:15	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420002A	12/09/2010 21:58	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/14/2010 06:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103540015A	12/20/2010 18:55	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420002A	12/08/2010 07:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10356162401A	12/22/2010 20:45	Scott W Freisher	1

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

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

Sample Description: SL-028-SA5C-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157198
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 300.0			mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4	0.88	1.7		1
EPA 314.0			ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1		1
SW-846 7199			mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46 J	0.22	1.1		1
SW-846 9012B			mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
ASTM D1498			mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	380	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	Std. Units	
00394	22a pH by 9045C	n.a.	8.01	0.0100	0.0100		1
Wet Chemistry EPA 160.3 modified			%	%	%	%	
11625	28a Total Solids by 160.3	n.a.	9.4	0.50	0.50		1
11626	28a Total Solids by 160.3	n.a.	9.8	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.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-XXX-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
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 17:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201B	12/15/2010 17:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 18:36	Venia B McFadden	1

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

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Sample Description: SL-028-SA5C-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5C-SB-4.0-5.0

LLI Sample # SW 6157198
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 09:50 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02845 SDG#: DE029-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243201A	12/30/2010 14:42	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:44	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182102B	12/08/2010 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039402A	12/08/2010 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243201A	12/25/2010 20:45	Daniel S Smith	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10356162401A	12/22/2010 20:45	Scott W Freisher	1
11626	28a Total Solids by 160.3	EPA 160.3 modified	1	10356162401A	12/22/2010 20:45	Scott W Freisher	1

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

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

Sample Description: SL-024-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-4.0-5.0

LLI Sample # SW 6157199
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:32 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02445 SDG#: DE029-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6 U	7.6	9.1		1.03
06192	Benzene	71-43-2	0.11 U	0.11	4.5		1.03
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.5		1.03
06192	Bromochloromethane	74-97-5	0.37 U	0.37	4.5		1.03
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.5		1.03
06192	Bromoform	75-25-2	0.45 U	0.45	4.5		1.03
06192	Bromomethane	74-83-9	0.28 U	0.28	4.5		1.03
06192	2-Butanone	78-93-3	1.4 U	1.4	9.1		1.03
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	4.5		1.03
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.5		1.03
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.5		1.03
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.5		1.03
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.5		1.03
06192	Chloroethane	75-00-3	0.15 U	0.15	4.5		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34 U	0.34	4.5		1.03
06192	Chloroform	67-66-3	0.14 U	0.14	4.5		1.03
06192	Chloromethane	74-87-3	0.37 U	0.37	4.5		1.03
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.5		1.03
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.5		1.03
06192	Chlorotrifluoroethene	79-38-9	0.57 U	0.57	5.7		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79 U	0.79	4.5		1.03
06192	Dibromochloromethane	124-48-1	0.23 U	0.23	4.5		1.03
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.5		1.03
06192	Dibromomethane	74-95-3	0.27 U	0.27	4.5		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	4.5		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14 U	0.14	4.5		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.5		1.03
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	4.5		1.03
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.5		1.03
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.5		1.03
06192	1,1-Dichloroethene	75-35-4	0.44 U	0.44	4.5		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22 U	0.22	4.5		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14 U	0.14	4.5		1.03
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.5		1.03
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.5		1.03
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.5		1.03
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.5		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.5		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.5		1.03
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.5		1.03
06192	Freon 113	76-13-1	0.12 U	0.12	4.5		1.03
06192	Freon 133a	75-88-7	0.57 U	0.57	5.7		1.03
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.5		1.03
06192	2-Hexanone	591-78-6	1.8 U	1.8	9.1		1.03
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.5		1.03
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.5		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24 U	0.24	4.5		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.44 U	0.44	9.1		1.03
06192	Methylene Chloride	75-09-2	0.45 J	0.27	4.5		1.03
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.5		1.03

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Sample Description: SL-024-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-4.0-5.0

LLI Sample # SW 6157199
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:32 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02445 SDG#: DE029-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.5		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.5		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26 U	0.26	4.5		1.03
06192	Tetrachloroethene	127-18-4	0.23 U	0.23	4.5		1.03
06192	Toluene	108-88-3	0.09 U	0.09	4.5		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.5		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.5		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23 U	0.23	4.5		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.31 U	0.31	4.5		1.03
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.5		1.03
06192	Trichlorofluoromethane	75-69-4	0.33 U	0.33	4.5		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.37 U	0.37	4.5		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.45 U	0.45	4.5		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.5		1.03
06192	Vinyl Chloride	75-01-4	0.23 U	0.23	4.5		1.03
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.5		1.03
06192	o-Xylene	95-47-6	0.19 U	0.19	4.5		1.03
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	6.3 U	6.3	19		28.47
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

Sample Description: SL-024-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-4.0-5.0

LLI Sample # SW 6157199
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:32 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02445 SDG#: DE029-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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	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

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

Sample Description: SL-024-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-4.0-5.0

LLI Sample # SW 6157199
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:32 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02445 SDG#: DE029-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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							
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							
01643	Aluminum	7429-90-5	24,300	5.53	22.0		1
07914	Boron	7440-42-8	4.19 J	0.978	5.49		1
01650	Calcium	7440-70-2	1,640	6.74	22.0		1
01654	Iron	7439-89-6	20,700	5.18	22.0		1
01656	Lithium	7439-93-2	19.1	0.24	2.2		1
01657	Magnesium	7439-95-4	3,130	2.79	11.0		1
06958	Manganese	7439-96-5	112	0.0857	0.549		1
10145	Phosphorus	7723-14-0	99.2	0.615	11.0		1
01662	Potassium	7440-09-7	1,060	19.8	54.9		1
01667	Sodium	7440-23-5	85.9 J	41.0	110		1
07968	Strontium	7440-24-6	18.8	0.0681	0.549		1
06969	Tin	7440-31-5	2.62 J	1.10	11.0		1
06970	Titanium	7440-32-6	963	0.418	1.10		1
10146	Zirconium	7440-67-7	0.978 J	0.923	5.49		1
SW-846 6020							
06124	Antimony	7440-36-0	0.0919 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	6.14	0.0640	0.427		2
06126	Barium	7440-39-3	118	0.115	0.427		2
06127	Beryllium	7440-41-7	0.893	0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0384 U	0.0384	0.107		2
06131	Chromium	7440-47-3	20.6	0.128	0.427		2
06132	Cobalt	7440-48-4	3.93	0.0213	0.107		2
06133	Copper	7440-50-8	6.10	0.0704	0.427		2

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

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

Sample Description: SL-024-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-4.0-5.0

LLI Sample # SW 6157199
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:32 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02445 SDG#: DE029-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	7.51	0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.576	0.0533	0.107		2
06139	Nickel	7440-02-0	9.68	0.107	0.427		2
06141	Selenium	7782-49-2	0.0718 J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0444 J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.230	0.0320	0.107		2
06148	Vanadium	7440-62-2	42.0	0.0235	0.107		2
06149	Zinc	7440-66-6	32.7	0.597	3.20		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0060 J	0.0031	0.107		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6	0.88	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41 J	0.22	1.1		1
		ASTM D1498	mV	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.98	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	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-024-SA5C-SB-4.5.

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

Sample Description: SL-024-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-4.0-5.0

LLI Sample # SW 6157199
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:32 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02445 SDG#: DE029-04

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	B103421BA	12/08/2010 09:48	Holly Berry	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 13:19	Jason M Long	28.47
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:18	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:40	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034123207	12/07/2010 22:40	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034123207	12/07/2010 22:15	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 09:01	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 00:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/14/2010 23:37	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 13:11	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 13:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:11	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 11:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 11:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 11:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 11:55	Choon Y Tian	2

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

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

Sample Description: SL-024-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-4.0-5.0

LLI Sample # SW 6157199
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:32 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02445 SDG#: DE029-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 18:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 21:00	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10359243201A	12/30/2010 15:06	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182102B	12/08/2010 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039402A	12/08/2010 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243201A	12/25/2010 20:45	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10343162401A	12/09/2010 08:36	William C Schwebel	1

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

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

Sample Description: TB-120610 Water
SSFL Area IV Collocated Soil Sampling
TB-120610

LLI Sample # WW 6157200
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 16:30

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

TB126 SDG#: DE029-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	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

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

Sample Description: TB-120610 Water
SSFL Area IV Collocated Soil Sampling
TB-120610

LLI Sample # WW 6157200
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 16:30

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

TB126 SDG#: DE029-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	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	ug/l	
00527	1,4-Dioxane	123-91-1	0.5 U	0.5	2.0		1
GC	Volatiles	TPH GRO SW-8015B	ug/l	ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20 U	20	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
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103422AA	12/08/2010 16:10	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103431AA	12/09/2010 07:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y103422AA	12/08/2010 16:10	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E103431AA	12/09/2010 07:24	Jason M Long	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10343A94A	12/09/2010 14:36	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10343A94A	12/09/2010 14:36	Marie D John	1

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

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

Sample Description: SL-025-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-4.0-5.0

LLI Sample # SW 6157201
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:13 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02545 SDG#: DE029-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.8		0.88
06192	Benzene	71-43-2	0.1 U	0.1	3.9		0.88
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9		0.88
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9		0.88
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9		0.88
06192	Bromoform	75-25-2	0.39 U	0.39	3.9		0.88
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9		0.88
06192	2-Butanone	78-93-3	1.2 U	1.2	7.8		0.88
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9		0.88
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9		0.88
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9		0.88
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9		0.88
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9		0.88
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9		0.88
06192	Chloroform	67-66-3	0.12 U	0.12	3.9		0.88
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9		0.88
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9		0.88
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69 U	0.69	3.9		0.88
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	3.9		0.88
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9		0.88
06192	Dibromomethane	74-95-3	0.24 U	0.24	3.9		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9		0.88
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9		0.88
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9		0.88
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	3.9		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9		0.88
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9		0.88
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9		0.88
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9		0.88
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9		0.88
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9		0.88
06192	Freon 113	76-13-1	0.11 U	0.11	3.9		0.88
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9		0.88
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.8		0.88
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9		0.88
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	3.9		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.8		0.88
06192	Methylene Chloride	75-09-2	0.63 J	0.24	3.9		0.88
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9		0.88

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Sample Description: SL-025-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-4.0-5.0

LLI Sample # SW 6157201
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:13 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02545 SDG#: DE029-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1 U	0.1	3.9		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	3.9		0.88
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	3.9		0.88
06192	Toluene	108-88-3	0.08 U	0.08	3.9		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	3.9		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	3.9		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9		0.88
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9		0.88
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.9		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9		0.88
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	3.9		0.88
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	3.9		0.88
06192	o-Xylene	95-47-6	0.17 U	0.17	3.9		0.88
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6 U	4.6	14		20.8
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	27.2 J	18.6	37.2		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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

Sample Description: SL-025-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-4.0-5.0

LLI Sample # SW 6157201
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:13 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02545 SDG#: DE029-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	37	U 37	190		1
04688	4-Methylphenol	106-44-5	37	U 37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	37	U 37	190		1
04688	4-Nitroaniline	100-01-6	74	U 74	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	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	1.2	J 0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.8	J 0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.3	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	2.0	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	1.6	J 0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20		1
10138	Fluoranthene	206-44-0	2.0	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

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Sample Description: SL-025-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-4.0-5.0

LLI Sample # SW 6157201
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:13 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02545 SDG#: DE029-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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	1.8 J	0.74	1.9		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0		22.56
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U 84	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U 56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	190	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U 56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U 56	170	10000000	1
10132	HMX	2691-41-0	140	U 140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U 56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	10000000	1
10132	PETN	78-11-5	1,100	U 1,100	3,400	10000000	1
10132	RDX	121-82-4	70	U 70	170	10000000	1
10132	Tetryl	479-45-8	85	U 85	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U 56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U 56	170	10000000	1

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Sample Description: SL-025-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-4.0-5.0

LLI Sample # SW 6157201
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:13 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02545 SDG#: DE029-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by 8315A	50-00-0	670 U	670	1,700		1
Perchlorate							
06557	6a Perchlorate EPA 6850	14797-73-0	2.3 U	2.3	5.6		1
Pesticides/PCBs							
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	0.50 J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.56 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.							
GC Extractable TPH							
10199	EFH (C12-C14)	n.a.	0.45 U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45 U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	8.9	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	24	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45 U	0.45	1.3		1
GC Miscellaneous							
10501	Ethanol	64-17-5	140 J	110	560		1
10501	Isopropanol	67-63-0	110 U	110	560		1
10501	Methanol	67-56-1	140 J	110	560		1
GC Miscellaneous							
08283	Diethylene glycol	111-46-6	5.6 U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6 U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6 U	5.6	14		1
Terphenyls							
10318	m-Terphenyl	92-06-8	1.7 U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	3.9		1
Metals							
SW-846 6010B							

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

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

Sample Description: SL-025-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-4.0-5.0

LLI Sample # SW 6157201
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:13 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02545 SDG#: DE029-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,900	5.51	21.9		1
07914	Boron	7440-42-8	4.91 J	0.975	5.48		1
01650	Calcium	7440-70-2	3,840	6.71	21.9		1
01654	Iron	7439-89-6	20,300	5.16	21.9		1
01656	Lithium	7439-93-2	20.3	0.24	2.2		1
01657	Magnesium	7439-95-4	4,210	2.78	11.0		1
06958	Manganese	7439-96-5	258	0.0854	0.548		1
10145	Phosphorus	7723-14-0	279	0.613	11.0		1
01662	Potassium	7440-09-7	2,390	19.7	54.8		1
01667	Sodium	7440-23-5	202	40.9	110		1
07968	Strontium	7440-24-6	27.1	0.0679	0.548		1
06969	Tin	7440-31-5	2.76 J	1.10	11.0		1
06970	Titanium	7440-32-6	1,130	0.833	2.19		2
10146	Zirconium	7440-67-7	1.61 J	0.920	5.48		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0850 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	5.61	0.0651	0.434		2
06126	Barium	7440-39-3	114	0.117	0.434		2
06127	Beryllium	7440-41-7	0.697	0.0174	0.108		2
06128	Cadmium	7440-43-9	0.243	0.0391	0.108		2
06131	Chromium	7440-47-3	26.2	0.130	0.434		2
06132	Cobalt	7440-48-4	7.11	0.0217	0.108		2
06133	Copper	7440-50-8	11.7	0.0716	0.434		2
06135	Lead	7439-92-1	7.57	0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.718	0.0542	0.108		2
06139	Nickel	7440-02-0	13.9	0.108	0.434		2
06141	Selenium	7782-49-2	0.154 J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0490 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.294	0.0325	0.108		2
06148	Vanadium	7440-62-2	47.5	0.0239	0.108		2
06149	Zinc	7440-66-6	70.9	0.607	3.25		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0127 J	0.0032	0.112		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2	0.89	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.5		1
	SW-846 7199		mg/kg	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

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

Sample Description: SL-025-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-4.0-5.0

LLI Sample # SW 6157201
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:13 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02545 SDG#: DE029-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	420	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.59	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Total Solids by 160.3	n.a.	10.5	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-025-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	B103421BA	12/08/2010 10:11	Holly Berry	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 13:39	Jason M Long	20.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:24	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:40	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034123207	12/07/2010 22:40	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034123207	12/07/2010 22:22	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLF026	12/24/2010 09:42	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 09:26	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 01:08	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLF026	12/12/2010 22:30	Patricia L Foreman	1

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

Sample Description: SL-025-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-4.0-5.0

LLI Sample # SW 6157201
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:13 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02545 SDG#: DE029-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 01:58	Marie D John	22.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:21	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420005A	12/15/2010 05:25	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 21:06	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103420019A	12/09/2010 16:51	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/14/2010 23:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103420019A	12/09/2010 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420005A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103540015A	12/22/2010 02:53	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 13:30	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103420002A	12/09/2010 19:50	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/14/2010 04:14	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103540015A	12/20/2010 18:55	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420002A	12/08/2010 07:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 13:22	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 13:22	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/13/2010 13:26	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:15	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2

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

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

Sample Description: SL-025-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-4.0-5.0

LLI Sample # SW 6157201
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:13 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02545 SDG#: DE029-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 18:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201B	12/15/2010 18:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 21:24	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243201A	12/30/2010 15:14	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:45	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182102B	12/08/2010 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039402A	12/08/2010 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243201A	12/25/2010 20:45	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10356162401A	12/22/2010 20:45	Scott W Freisher	1

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

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

Sample Description: SL-025-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-9.0-10.0

LLI Sample # SW 6157202
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:24 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02591 SDG#: DE029-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1 J	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	0.28 U	0.28	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	1.5 J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.06 U	0.06	3.7		0.83

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Sample Description: SL-025-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-9.0-10.0

LLI Sample # SW 6157202
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:24 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02591 SDG#: DE029-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	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	0.07 U	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	0.17 U	0.17	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	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		24.13
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	80.3	18.4	36.8		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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Sample Description: SL-025-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-9.0-10.0

LLI Sample # SW 6157202
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:24 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02591 SDG#: DE029-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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
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	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

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Sample Description: SL-025-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-9.0-10.0

LLI Sample # SW 6157202
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:24 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02591 SDG#: DE029-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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	6.6 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
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	0.9		20.73
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U 83	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U 55	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	55	U 55	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	55	U 55	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	55	U 55	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	410	1000000 0	1
10132	Nitrobenzene	98-95-3	55	U 55	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1000000 0	1
10132	RDX	121-82-4	69	U 69	170	1000000 0	1
10132	Tetryl	479-45-8	84	U 84	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U 55	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U 55	170	1000000 0	1

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SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-9.0-10.0

LLI Sample # SW 6157202
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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	660 U	660	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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	0.60 J	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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44 U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44 U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	6.4	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	14	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44 U	0.44	1.3		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	130 J	110	550		1
10501	Isopropanol	67-63-0	110 U	110	550		1
10501	Methanol	67-56-1	110 U	110	550		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5 U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5 U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5 U	5.5	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	3.9		1
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,700	5.49	21.8		1
07914	Boron	7440-42-8	3.28 J	0.972	5.46		1
01650	Calcium	7440-70-2	2,530	6.69	21.8		1
01654	Iron	7439-89-6	16,400	5.14	21.8		1

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Sample Description: SL-025-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-9.0-10.0

LLI Sample # SW 6157202
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:24 by PH

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Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02591 SDG#: DE029-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	18.0	0.24	2.2		1
01657	Magnesium	7439-95-4	3,450	2.77	10.9		1
06958	Manganese	7439-96-5	234	0.0851	0.546		1
10145	Phosphorus	7723-14-0	317	0.611	10.9		1
01662	Potassium	7440-09-7	2,510	19.6	54.6		1
01667	Sodium	7440-23-5	119	40.7	109		1
07968	Strontium	7440-24-6	16.3	0.0677	0.546		1
06969	Tin	7440-31-5	2.39 J	1.09	10.9		1
06970	Titanium	7440-32-6	982	0.415	1.09		1
10146	Zirconium	7440-67-7	0.917 U	0.917	5.46		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0763 J	0.0649	0.216		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.25	0.0649	0.432		2
06126	Barium	7440-39-3	110	0.117	0.432		2
06127	Beryllium	7440-41-7	0.683	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.183	0.0389	0.108		2
06131	Chromium	7440-47-3	23.2	0.130	0.432		2
06132	Cobalt	7440-48-4	6.87	0.0216	0.108		2
06133	Copper	7440-50-8	11.5	0.0713	0.432		2
06135	Lead	7439-92-1	6.93	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.657	0.0540	0.108		2
06139	Nickel	7440-02-0	12.3	0.108	0.432		2
06141	Selenium	7782-49-2	0.113 J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0502 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.345	0.0324	0.108		2
06148	Vanadium	7440-62-2	43.7	0.0238	0.108		2
06149	Zinc	7440-66-6	74.4	0.605	3.24		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0057 J	0.0031	0.107		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8	0.88	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	156	9.9	33.1		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1

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SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-9.0-10.0

LLI Sample # SW 6157202
LLI Group # 1224161
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:24 by PH

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Suite 210
Chantilly VA 20151

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02591 SDG#: DE029-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	424	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	Std. Units	
00394	22a pH by 9045C	n.a.	8.46	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	9.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-025-SA5C-SB-9.5.

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	B103421BA	12/08/2010 10:33	Holly Berry	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 13:59	Jason M Long	24.13
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:36	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:40	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034123207	12/07/2010 22:40	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034123207	12/07/2010 22:34	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLF026	12/24/2010 09:59	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 09:51	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 01:41	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLF026	12/12/2010 22:30	Patricia L Foreman	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 02:34	Marie D John	20.73

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

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

Sample Description: SL-025-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-9.0-10.0

LLI Sample # SW 6157202
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:24 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02591 SDG#: DE029-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034123207	12/07/2010 22:33	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420005A	12/15/2010 07:32	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 21:15	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 00:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420005A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B	SW-846 8015B	1	103540015A	12/22/2010 01:14	Heather E Williams	1
10501	Oil/Diesel	modified					
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 13:45	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B	1	103420002A	12/09/2010 20:06	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/14/2010 01:14	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103540015A	12/20/2010 18:55	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103420002A	12/08/2010 07:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 13:29	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 13:29	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/13/2010 13:29	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:18	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:08	Choon Y Tian	2

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Sample Description: SL-025-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5C-SB-9.0-10.0

LLI Sample # SW 6157202
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 15:24 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02591 SDG#: DE029-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 19:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201B	12/15/2010 19:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 21:48	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243201A	12/30/2010 15:46	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:46	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182102B	12/08/2010 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039402A	12/08/2010 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243201A	12/25/2010 20:45	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10356162401A	12/22/2010 20:45	Scott W Freisher	1

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Sample Description: SL-024-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-9.0-10.0

LLI Sample # SW 6157203
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:36 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02491 SDG#: DE029-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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Sample Description: SL-024-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-9.0-10.0

LLI Sample # SW 6157203
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:36 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02491 SDG#: DE029-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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	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	1.2 J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.3 J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.7 J	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	1.0 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	1.5 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	6.5 U	6.5	20		1
10138	Fluoranthene	206-44-0	1.9	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	2.1	0.73	1.8		1
Pesticides/PCBs	SW-846 8082		ug/kg	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	mg/kg	
01643	Aluminum	7429-90-5	18,500	5.49	21.8		1

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Sample Description: SL-024-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-9.0-10.0

LLI Sample # SW 6157203
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:36 by PH

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14420 Albemarle Point Place
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Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02491 SDG#: DE029-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	2.05 J	0.971	5.45		1
01650	Calcium	7440-70-2	1,190	6.68	21.8		1
01654	Iron	7439-89-6	19,500	5.14	21.8		1
01656	Lithium	7439-93-2	19.1	0.24	2.2		1
01657	Magnesium	7439-95-4	3,490	2.77	10.9		1
06958	Manganese	7439-96-5	115	0.0851	0.545		1
10145	Phosphorus	7723-14-0	88.6	0.611	10.9		1
01662	Potassium	7440-09-7	1,750	19.6	54.5		1
01667	Sodium	7440-23-5	161	40.7	109		1
07968	Strontium	7440-24-6	14.3	0.0676	0.545		1
06969	Tin	7440-31-5	2.82 J	1.09	10.9		1
06970	Titanium	7440-32-6	1,090	0.829	2.18		2
10146	Zirconium	7440-67-7	1.04 J	0.916	5.45		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0648 U	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.72	0.0648	0.432		2
06126	Barium	7440-39-3	66.1	0.117	0.432		2
06127	Beryllium	7440-41-7	0.686	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0430 J	0.0389	0.108		2
06131	Chromium	7440-47-3	19.4	0.130	0.432		2
06132	Cobalt	7440-48-4	3.79	0.0216	0.108		2
06133	Copper	7440-50-8	6.18	0.0713	0.432		2
06135	Lead	7439-92-1	6.17	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.556	0.0540	0.108		2
06139	Nickel	7440-02-0	8.97	0.108	0.432		2
06141	Selenium	7782-49-2	0.0486 J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0229 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.352	0.0324	0.108		2
06148	Vanadium	7440-62-2	40.7	0.0238	0.108		2
06149	Zinc	7440-66-6	50.2	0.605	3.24		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0033 J	0.0030	0.105		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.2	0.87	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.7		1
	SW-846 7199		mg/kg	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

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

Sample Description: SL-024-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-9.0-10.0

LLI Sample # SW 6157203
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:36 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02491 SDG#: DE029-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	384	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	Std. Units	
00394	22a pH by 9045C	n.a.	8.24	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	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	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 10:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 02:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 00:33	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 13:36	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 13:36	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1

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

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

Sample Description: SL-024-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5C-SB-9.0-10.0

LLI Sample # SW 6157203
LLI Group # 1224161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/06/2010 11:36 by PH

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

Submitted: 12/07/2010 09:45

Reported: 01/04/2011 13:11

02491 SDG#: DE029-08*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103435708002	12/13/2010 13:40	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:22	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 19:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 22:12	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243201A	12/30/2010 16:02	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182102B	12/08/2010 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039402A	12/08/2010 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243201A	12/25/2010 20:45	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10343162401A	12/09/2010 08:36	William C Schwebel	1

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

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: B103421BA Sample number(s): 6157193-6157197, 6157199, 6157201-6157202									
Acetone	6.7 U	6.7	8.0	ug/kg	89		32-209		
Benzene	0.10 U	0.10	4.0	ug/kg	104		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	100		79-124		
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40 U	0.40	4.0	ug/kg	94		70-120		
Bromomethane	0.25 U	0.25	4.0	ug/kg	74		32-162		
2-Butanone	1.2 U	1.2	8.0	ug/kg	90		46-153		
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	97		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	95		75-120		
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	101		69-122		
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13 U	0.13	4.0	ug/kg	75		37-154		
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	100		43-146		
Chloroform	0.12 U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33 U	0.33	4.0	ug/kg	74		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	140*		22-131		
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	89		58-120		
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	95		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	100		80-120		
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	95		79-120		
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	95		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	59		20-120		
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	101		80-120		
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	101		73-123		
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	102		80-120		
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	102		79-120		
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	98		80-120		
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	94		80-120		
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	100		72-123		
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	101		77-120		
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	94		80-120		
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	90		77-120		
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	97		80-120		
Freon 113	0.11 U	0.11	4.0	ug/kg	95		61-126		
Freon 133a	0.50 U	0.50	5.0	ug/kg	98		78-120		
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	96		57-120		
2-Hexanone	1.6 U	1.6	8.0	ug/kg	67		45-155		
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	98		76-120		
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	97		75-120		

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

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	73		61-134		
Methylene Chloride	0.81 J	0.24	4.0	ug/kg	97		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	99		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	98		77-120		
Toluene	0.1 J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	91		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	90		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	102		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	95		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	100		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	83		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	93		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	96		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	75		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	95		80-120		
Batch number: E103431AA	Sample number(s): 6157200								
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	97	106	60-132	8	30
Batch number: E103432AA	Sample number(s): 6157193-6157197, 6157199, 6157201-6157202								
1,4-Dioxane	5.0 U	5.0	15	ug/kg	112	107	70-130	4	30
Batch number: Y103422AA	Sample number(s): 6157200								
Acetone	6 U	6.	20	ug/l	117	129	49-234	10	30
Benzene	0.5 U	0.5	5	ug/l	96	105	79-120	10	30
Bromobenzene	1 U	1.	5	ug/l	103	114	80-120	11	30
Bromochloromethane	1 U	1.	5	ug/l	99	109	80-120	9	30
Bromodichloromethane	1 U	1.	5	ug/l	93	103	80-120	10	30
Bromoform	1 U	1.	5	ug/l	96	104	61-120	8	30
Bromomethane	1 U	1.	5	ug/l	89	98	44-120	10	30
2-Butanone	3 U	3.	10	ug/l	93	105	66-151	12	30
n-Butylbenzene	1 U	1.	5	ug/l	96	106	74-120	10	30
sec-Butylbenzene	1 U	1.	5	ug/l	102	114	78-120	11	30
tert-Butylbenzene	1 U	1.	5	ug/l	98	109	80-120	10	30
Carbon Tetrachloride	1 U	1.	5	ug/l	100	109	75-123	9	30
Chlorobenzene	0.8 U	0.8	5	ug/l	99	110	80-120	10	30
Chloroethane	1 U	1.	5	ug/l	90	98	49-129	8	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	109	121	56-129	10	30
Chloroform	0.8 U	0.8	5	ug/l	98	108	77-122	10	30
Chloromethane	1 U	1.	5	ug/l	92	102	60-129	10	30
2-Chlorotoluene	1 U	1.	5	ug/l	105	114	80-120	9	30
4-Chlorotoluene	1 U	1.	5	ug/l	98	108	80-120	9	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	120	112	38-136	6	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	114	126*	66-120	10	30
Dibromochloromethane	1 U	1.	5	ug/l	101	110	80-120	9	30
1,2-Dibromoethane	1 U	1.	5	ug/l	101	112	80-120	10	30
Dibromomethane	1 U	1.	5	ug/l	97	107	80-120	9	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	95	105	80-120	10	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	100	111	80-120	11	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	98	108	80-120	10	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	66	73	47-120	10	30
1,1-Dichloroethane	1 U	1.	5	ug/l	101	111	79-120	10	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1 U	1.	5	ug/l	99	110	70-130	10	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	96	106	74-123	10	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	100	111	80-120	10	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	111	80-120	11	30
1,2-Dichloropropane	1 U	1.	5	ug/l	95	105	78-120	9	30
1,3-Dichloropropane	1 U	1.	5	ug/l	102	112	80-120	9	30
2,2-Dichloropropane	1 U	1.	5	ug/l	93	104	77-124	10	30
1,1-Dichloropropene	1 U	1.	5	ug/l	97	107	80-120	10	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	90	100	80-120	10	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	96	108	79-120	12	30
Ethylbenzene	0.8 U	0.8	5	ug/l	97	109	79-120	11	30
Freon 113	2 U	2.	10	ug/l	94	102	69-128	8	30
Freon 133a	2 U	2.	5	ug/l	106	103	77-120	3	30
Hexachlorobutadiene	2 U	2.	5	ug/l	88	101	58-120	14	30
2-Hexanone	3 U	3.	10	ug/l	99	111	65-136	11	30
Isopropylbenzene	1 U	1.	5	ug/l	97	108	77-120	10	30
p-Isopropyltoluene	1 U	1.	5	ug/l	101	111	80-120	9	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	109	76-120	12	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	94	107	70-121	12	30
Methylene Chloride	2 U	2.	5	ug/l	100	113	80-120	12	30
n-Propylbenzene	1 U	1.	5	ug/l	105	116	80-120	10	30
Styrene	1 U	1.	5	ug/l	98	107	80-120	8	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	102	114	80-120	11	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	105	117	71-120	10	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	98	109	80-121	10	30
Toluene	0.7 U	0.7	5	ug/l	100	109	79-120	9	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	96	108	65-120	12	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	93	107	67-120	13	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	85	96	75-127	12	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	100	111	80-120	10	30
Trichloroethene	1 U	1.	5	ug/l	95	105	80-120	10	30
Trichlorofluoromethane	2 U	2.	5	ug/l	79	85	64-129	8	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	108	119	80-120	10	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	105	115	74-120	9	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	102	113	75-120	10	30
Vinyl Chloride	1 U	1.	5	ug/l	83	93	65-125	11	30
m+p-Xylene	0.8 U	0.8	5	ug/l	95	105	80-120	10	30
o-Xylene	0.8 U	0.8	5	ug/l	96	106	80-120	10	30

Batch number: 10344SLA026

Sample number(s): 6157193-6157197, 6157199, 6157201-6157203

Acenaphthene	17 U	17.	170	ug/kg	95	76-111
Acenaphthylene	17 U	17.	170	ug/kg	102	75-122
Aniline	170 U	170.	500	ug/kg	59	10-107
Anthracene	17 U	17.	170	ug/kg	98	76-112
Benzidine	1,200 U	1,200.	3,300	ug/kg	36	15-121
Benzo(a)anthracene	17 U	17.	170	ug/kg	96	73-112
Benzo(a)pyrene	17 U	17.	170	ug/kg	99	69-122
Benzo(b)fluoranthene	17 U	17.	170	ug/kg	100	61-127
Benzo(g,h,i)perylene	17 U	17.	170	ug/kg	99	65-122
Benzo(k)fluoranthene	17 U	17.	170	ug/kg	108	67-125
Benzoic acid	170 U	170.	500	ug/kg	88	10-154
Benzyl alcohol	170 U	170.	500	ug/kg	97	68-111
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	99	79-117
Butylbenzylphthalate	17 U	17.	170	ug/kg	100	75-115

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17 U	17.	170	ug/kg	101		79-112		
Carbazole	17 U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	19		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	74		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	100		79-110		
Chrysene	17 U	17.	170	ug/kg	100		76-113		
Dibenz(a,h)anthracene	17 U	17.	170	ug/kg	100		70-128		
Dibenzofuran	17 U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	62		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	99		75-111		
Diethylphthalate	17 U	17.	170	ug/kg	98		76-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	106		70-130		
Dimethylphthalate	17 U	17.	170	ug/kg	98		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	68		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	102		77-111		
bis(2-Ethylhexyl)phthalate	25 J	17.	330	ug/kg	101		75-117		
Fluoranthene	17 U	17.	170	ug/kg	97		78-116		
Fluorene	17 U	17.	170	ug/kg	96		75-116		
Hexachlorobenzene	17 U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	83		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	81		68-105		
Indeno(1,2,3-cd)pyrene	17 U	17.	170	ug/kg	100		64-119		
Isophorone	17 U	17.	170	ug/kg	91		69-110		
1-Methylnaphthalene	17 U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17 U	17.	170	ug/kg	89		76-105		
2-Methylphenol	33 U	33.	170	ug/kg	92		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	95		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	66		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	88		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	90		63-107		
N-Nitrosodimethylamine	33 U	33.	170	ug/kg	85		60-106		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	102		67-141		
Di-n-octylphthalate	17 U	17.	170	ug/kg	112		68-130		
Pentachlorophenol	170 U	170.	500	ug/kg	74		35-106		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

<u>Analysis Name</u>	<u>Blank Result</u>		<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Phenanthrene	17	U	17.	170	ug/kg	98		77-113		
Phenol	17	U	17.	170	ug/kg	93		58-112		
Pyrene	17	U	17.	170	ug/kg	103		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		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	102		78-111		
Batch number: 10344SLB026 Sample number(s): 6157193-6157197, 6157199, 6157201-6157203										
Acenaphthene	0.67	U	0.67	1.7	ug/kg	92		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	94		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	97		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	92		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	99		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	105		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	92		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	92		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		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	98		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	91		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		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	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	118		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	89		56-121		
Batch number: 10345SLF026 Sample number(s): 6157193-6157197, 6157201-6157202										
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	91		70-130		
Batch number: 10343A34A Sample number(s): 6157193-6157197, 6157201-6157202										
9a TPH by EPA 8015B Gas	0.2	U	0.2	1.0	mg/kg	78	75	67-119	4	30
Batch number: 10343A94A Sample number(s): 6157200										
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	118	75-135	8	30
Batch number: 103420005A Sample number(s): 6157193-6157197, 6157201-6157202										
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	107		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	108		80-120		
2,6-Diamino-4-nitrotoluene	100	U	100.	300	ug/kg	76	78	54-134	4	30
2,4-Diamino-6-nitrotoluene	100	U	100.	300	ug/kg	75	78	54-134	4	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	107		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	104		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	110		80-120		
HMX	130	U	130.	380	ug/kg	97		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	106		80-120		
Nitroglycerin	1,000	U	1,000.	3,000	ug/kg	93		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	100 U	100.	150	ug/kg	107		78-128		
3-Nitrotoluene	130 U	130.	150	ug/kg	108		73-127		
4-Nitrotoluene	100 U	100.	150	ug/kg	107		80-120		
PETN	1,000 U	1,000.	3,000	ug/kg	106		80-120		
RDX	63 U	63.	150	ug/kg	104		75-131		
Tetryl	77 U	77.	150	ug/kg	110		70-168		
1,3,5-Trinitrobenzene	50 U	50.	150	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	50 U	50.	150	ug/kg	107		80-120		
Batch number: 103430011A	Sample number(s): 6157193-6157197, 6157201-6157202								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	105		80-126		
Batch number: 103420019A	Sample number(s): 6157201								
6a Perchlorate EPA 6850	2.1 U	2.1	5.0	ug/kg	96		70-130		
Batch number: 103440016A	Sample number(s): 6157193-6157197, 6157199, 6157201-6157203								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	69*	66*	75-125	4	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	99		72-120		
PCB-1221	0.50 U	0.50	1.7	ug/kg					
PCB-1232	0.52 U	0.52	1.7	ug/kg					
PCB-1242	0.50 U	0.50	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.33 U	0.33	1.7	ug/kg	115		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					
Batch number: 103540015A	Sample number(s): 6157193-6157197, 6157201-6157202								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	85		66-113		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	107		66-113		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	104		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	79		66-113		
Batch number: 103420002A	Sample number(s): 6157193-6157197, 6157201-6157202								
Diethylene glycol	5.0 U	5.0	13	mg/kg	103		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	88		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	102		75-125		
Batch number: 103430001A	Sample number(s): 6157193-6157197, 6157201-6157202								
Ethanol	100 U	100.	500	ug/kg	95		75-112		
Isopropanol	100 U	100.	500	ug/kg	95		75-125		
Methanol	100 U	100.	500	ug/kg	102		75-134		
Batch number: 103440015A	Sample number(s): 6157193-6157197, 6157201-6157202								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	102		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	100		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103431026001A	Sample number(s): 6157193-6157194, 6157199, 6157201-6157203								
Antimony	0.0600 U	0.0600	0.200	mg/kg	62		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	94		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	97		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	104		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.284 J	0.0660	0.400	mg/kg	101		80-120		
Lead	0.0130 J	0.0104	0.200	mg/kg	99		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	97		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	100		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	91		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	93		78-122		
Batch number: 103431026001B	Sample number(s): 6157193-6157194, 6157199, 6157201-6157203								
Selenium	0.0400 U	0.0400	0.400	mg/kg	102		79-122		
Batch number: 103431026001C	Sample number(s): 6157193-6157194, 6157199, 6157201-6157203								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	97		78-122		
Batch number: 103431026001D	Sample number(s): 6157193-6157194, 6157199, 6157201-6157203								
Barium	0.108 U	0.108	0.400	mg/kg	98		79-121		
Batch number: 103435708002	Sample number(s): 6157193-6157194, 6157199, 6157201-6157203								
Aluminum	6.22 J	4.93	19.6	mg/kg	98		61-110		
Boron	0.873 U	0.873	4.90	mg/kg	93		78-110		
Calcium	7.06 J	6.01	19.6	mg/kg	98		88-110		
Iron	4.62 U	4.62	19.6	mg/kg	91		61-110		
Lithium	0.50 J	0.22	2.0	mg/kg	104		80-120		
Magnesium	2.49 U	2.49	9.80	mg/kg	98		82-110		
Manganese	0.0765 U	0.0765	0.490	mg/kg	98		81-119		
Phosphorus	0.819 J	0.549	9.80	mg/kg	102		80-120		
Potassium	17.6 U	17.6	49.0	mg/kg	98		78-110		
Sodium	36.6 U	36.6	98.0	mg/kg	94		87-110		
Strontium	0.0608 U	0.0608	0.490	mg/kg	104		79-121		
Tin	1.73 J	0.980	9.80	mg/kg	105		90-114		
Titanium	0.373 U	0.373	0.980	mg/kg	90		80-120		
Zirconium	0.824 U	0.824	4.90	mg/kg	106		80-120		
Batch number: 103435711002	Sample number(s): 6157193-6157194, 6157199, 6157201-6157203								
Mercury	0.0028 U	0.0028	0.0959	mg/kg	98		88-123		
Batch number: 10348348201A	Sample number(s): 6157193-6157194								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 10348348201B	Sample number(s): 6157195-6157196, 6157198-6157199, 6157201-6157203								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 10351102201A	Sample number(s): 6157193-6157196, 6157198, 6157201-6157202								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	103		80-120		
Batch number: 10351351201A	Sample number(s): 6157193-6157196, 6157198-6157199, 6157201-6157203								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10359243201A 3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	88	199	80-120		
Batch number: 10342039402A 22a pH by 9045C	Sample number(s): 6157193-6157195, 6157198-6157199, 6157201-6157203								
Batch number: 10342182102A Oxidation Reduction Potential	Sample number(s): 6157193-6157194								
Batch number: 10342182102B Oxidation Reduction Potential	Sample number(s): 6157195, 6157198-6157199, 6157201-6157203								
Batch number: 10343162401A 28a Total Solids by 160.3	Sample number(s): 6157199, 6157203								
Batch number: 10356162401A 28a Total Solids by 160.3	Sample number(s): 6157193-6157198, 6157201-6157202								
28a Total Solids by 160.3									
28a Total Solids by 160.3									

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103421BA	Sample number(s): 6157193-6157197, 6157199, 6157201-6157202 UNSPK: 6157195								
Acetone	85	88	15-210	10	30				
Benzene	112	112	55-143	6	30				
Bromobenzene	103	104	43-139	7	30				
Bromochloromethane	103	103	60-137	6	30				
Bromodichloromethane	104	101	53-136	4	30				
Bromoform	95	91	38-124	3	30				
Bromomethane	81	80	42-168	5	30				
2-Butanone	76	77	37-163	9	30				
n-Butylbenzene	97	100	30-146	9	30				
sec-Butylbenzene	104	107	33-157	9	30				
tert-Butylbenzene	104	107	41-152	9	30				
Carbon Tetrachloride	116	115	45-153	6	30				
Chlorobenzene	105	104	49-135	5	30				
Chloroethane	86	85	39-152	5	30				
2-Chloroethyl Vinyl Ether	91	92	32-139	7	30				
Chloroform	112	109	61-142	3	30				
Chloromethane	84	84	51-163	5	30				
2-Chlorotoluene	105	107	42-146	8	30				
4-Chlorotoluene	104	105	39-145	8	30				
Chlorotrifluoroethene	167*	170*	70-130	3	30				
1,2-Dibromo-3-chloropropane	79	82	30-139	10	30				
Dibromochloromethane	101	98	51-128	3	30				
1,2-Dibromoethane	95	94	54-129	5	30				
Dibromomethane	102	98	57-130	3	30				
1,2-Dichlorobenzene	100	100	36-133	6	30				
1,3-Dichlorobenzene	99	100	34-134	7	30				

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

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
1,4-Dichlorobenzene	99	100	35-136	8	30				
Dichlorodifluoromethane	68	69	26-151	7	30				
1,1-Dichloroethane	112	111	63-142	5	30				
1,2-Dichloroethane	106	103	68-131	4	30				
1,1-Dichloroethene	117	118	61-149	7	30				
cis-1,2-Dichloroethene	112	109	60-136	4	30				
trans-1,2-Dichloroethene	113	112	59-142	6	30				
1,2-Dichloropropane	107	104	62-135	4	30				
1,3-Dichloropropane	100	98	58-129	5	30				
2,2-Dichloropropane	111	110	53-147	6	30				
1,1-Dichloropropene	112	113	54-145	7	30				
cis-1,3-Dichloropropene	97	97	51-131	6	30				
trans-1,3-Dichloropropene	96	96	49-129	6	30				
Ethylbenzene	106	107	44-141	7	30				
Freon 113	109	107	56-156	4	30				
Freon 133a	113	117	70-130	4	30				
Hexachlorobutadiene	76	71	10-155	1	30				
2-Hexanone	58	61	32-160	11	30				
Isopropylbenzene	105	106	38-144	8	30				
p-Isopropyltoluene	102	104	29-152	8	30				
Methyl Tertiary Butyl Ether	88	90	55-129	8	30				
4-Methyl-2-pentanone	64	65	46-139	8	30				
Methylene Chloride	101	102	61-141	7	30				
n-Propylbenzene	108	111	39-157	9	30				
Styrene	103	102	35-134	5	30				
1,1,1,2-Tetrachloroethane	107	104	52-130	4	30				
1,1,2,2-Tetrachloroethane	94	93	40-152	6	30				
Tetrachloroethene	114	114	42-149	6	30				
Toluene	110	109	50-146	6	30				
1,2,3-Trichlorobenzene	75	75	10-140	6	30				
1,2,4-Trichlorobenzene	78	78	10-136	6	30				
1,1,1-Trichloroethane	114	114	64-142	6	30				
1,1,2-Trichloroethane	100	98	54-139	4	30				
Trichloroethene	108	108	53-144	6	30				
Trichlorofluoromethane	99	96	47-163	3	30				
1,2,3-Trichloropropane	93	94	45-154	7	30				
1,2,4-Trimethylbenzene	105	106	37-149	8	30				
1,3,5-Trimethylbenzene	106	108	38-150	8	30				
Vinyl Chloride	87	88	50-154	7	30				
m+p-Xylene	106	107	44-137	7	30				
o-Xylene	102	102	42-137	6	30				

Batch number: E103432AA
1,4-Dioxane

Sample number(s): 6157193-6157197,6157199,6157201-6157202 UNSPK: 6157195
87 91 70-130 14 30

Batch number: 10344SLA026
Acenaphthene
Acenaphthylene
Aniline
Anthracene
Benzidine
Benzo(a)anthracene
Benzo(a)pyrene

Sample number(s): 6157193-6157197,6157199,6157201-6157203 UNSPK: 6157195
97 101 75-115 4 30
100 106 49-126 6 30
53 64 14-114 20 30
99 101 75-115 2 30
30* 38 35-141 23 30
96 101 65-122 5 30
97 101 57-126 4 30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

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
Benzo(b)fluoranthene	97	96	59-125	1	30				
Benzo(g,h,i)perylene	101	107	59-127	6	30				
Benzo(k)fluoranthene	102	106	56-132	4	30				
Benzoic acid	63	50	10-173	22	30				
Benzyl alcohol	96	104	55-123	8	30				
4-Bromophenyl-phenylether	98	104	67-129	6	30				
Butylbenzylphthalate	104	107	73-134	3	30				
Di-n-butylphthalate	97	101	67-123	3	30				
Carbazole	96	98	64-120	2	30				
4-Chloro-3-methylphenol	96	101	53-130	5	30				
4-Chloroaniline	52	59	23-95	13	30				
bis(2-Chloroethoxy)methane	96	102	54-117	6	30				
bis(2-Chloroethyl)ether	93	101	60-116	8	30				
bis(2-Chloroisopropyl)ether	91	96	55-142	6	30				
2-Chloronaphthalene	74	79	50-141	6	30				
2-Chlorophenol	96	103	73-121	7	30				
4-Chlorophenyl-phenylether	100	105	64-119	6	30				
Chrysene	103	100	62-128	3	30				
Dibenz(a,h)anthracene	98	103	65-125	6	30				
Dibenzofuran	98	101	71-112	3	30				
1,2-Dichlorobenzene	86	94	66-108	8	30				
1,3-Dichlorobenzene	86	92	63-109	7	30				
1,4-Dichlorobenzene	87	94	53-113	7	30				
3,3'-Dichlorobenzidine	50	56	25-123	11	30				
2,4-Dichlorophenol	99	105	78-117	5	30				
Diethylphthalate	95	102	66-118	6	30				
2,4-Dimethylphenol	96	102	56-130	6	30				
3,5-Dimethylphenol	106	109	70-130	3	30				
Dimethylphthalate	96	103	64-118	7	30				
4,6-Dinitro-2-methylphenol	63	63	10-148	1	30				
2,4-Dinitrophenol	30	31	20-143	3	30				
2,4-Dinitrotoluene	96	99	57-114	3	30				
2,6-Dinitrotoluene	99	103	69-123	4	30				
1,2-Diphenylhydrazine	102	106	71-129	4	30				
bis(2-Ethylhexyl)phthalate	101	103	63-122	2	30				
Fluoranthene	96	98	59-122	2	30				
Fluorene	96	103	60-125	6	30				
Hexachlorobenzene	95	100	61-111	5	30				
Hexachlorobutadiene	91	102	62-120	12	30				
Hexachlorocyclopentadiene	69	63	10-153	8	30				
Hexachloroethane	82	91	57-109	11	30				
Indeno(1,2,3-cd)pyrene	101	102	61-126	1	30				
Isophorone	95	98	51-118	3	30				
1-Methylnaphthalene	95	103	73-112	8	30				
2-Methylnaphthalene	91	95	76-114	4	30				
2-Methylphenol	98	103	47-142	5	30				
4-Methylphenol	99	106	55-126	6	30				
Naphthalene	93	101	72-116	9	30				
2-Nitroaniline	93	98	67-125	4	30				
3-Nitroaniline	91	94	59-122	3	30				
4-Nitroaniline	70	71	52-112	2	30				
Nitrobenzene	92	98	51-114	6	30				
2-Nitrophenol	92	95	74-115	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

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
4-Nitrophenol	78	84	39-133	7	30				
N-Nitroso-di-n-propylamine	90	97	60-116	8	30				
N-Nitrosodimethylamine	89	94	47-116	5	30				
N-Nitrosodiphenylamine	100	103	86-145	3	30				
Di-n-octylphthalate	107	110	56-126	3	30				
Pentachlorophenol	62	69	17-149	11	30				
Phenanthrene	97	100	65-125	3	30				
Phenol	94	101	58-126	7	30				
Pyrene	106	108	51-151	2	30				
1,2,4-Trichlorobenzene	93	100	72-115	7	30				
2,4,5-Trichlorophenol	96	100	34-139	5	30				
2,4,6-Trichlorophenol	100	104	49-140	4	30				
Batch number: 10344SLB026 Sample number(s): 6157193-6157197,6157199,6157201-6157203 UNSPK: 6157195									
Acenaphthene	88	94	63-105	7	30				
Acenaphthylene	92	97	55-126	5	30				
Anthracene	92	100	46-136	8	30				
Benzo(a)anthracene	92	104	39-144	12	30				
Benzo(a)pyrene	83	97	34-156	15	30				
Benzo(b)fluoranthene	92	110	43-155	17	30				
Benzo(g,h,i)perylene	78	54	33-141	34*	30				
Benzo(k)fluoranthene	78	101	42-144	25	30				
Butylbenzylphthalate	114	124	73-140	9	30				
Di-n-butylphthalate	93	107	78-160	14	30				
Chrysene	88	100	29-156	12	30				
Dibenz(a,h)anthracene	84	72	41-130	15	30				
Diethylphthalate	98	105	87-131	7	30				
Dimethylphthalate	96	119*	74-118	21	30				
Bis(2-Ethylhexyl)phthalate	103	109	39-167	5	30				
Fluoranthene	88	106	26-166	17	30				
Fluorene	94	100	45-121	7	30				
Indeno(1,2,3-cd)pyrene	83	69	21-143	19	30				
1-Methylnaphthalene	90	95	72-123	6	30				
2-Methylnaphthalene	81	85	28-121	5	30				
Naphthalene	87	91	61-102	5	30				
N-Nitrosodimethylamine	90	96	48-113	6	30				
Di-n-octylphthalate	115	144	40-192	23	30				
Phenanthrene	89	98	12-165	10	30				
Pyrene	84	92	15-153	9	30				
Batch number: 10345SLF026 Sample number(s): 6157193-6157197,6157201-6157202 UNSPK: 6157195									
N-Nitrosodimethylamine	83	85	70-130	2	30				
Batch number: 10343A34A Sample number(s): 6157193-6157197,6157201-6157202 UNSPK: 6157195									
9a TPH by EPA 8015B Gas	61	68	39-118	10	30				
Batch number: 10343A94A Sample number(s): 6157200 UNSPK: P156322									
TPH-GRO S.CA water C5-C12	118		63-154						
Batch number: 103420005A Sample number(s): 6157193-6157197,6157201-6157202 UNSPK: 6157195									
4-Amino-2,6-Dinitrotoluene	106	107	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	106	80-137	1	50				
1,3-Dinitrobenzene	94	98	38-166	4	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

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
2,4-Dinitrotoluene	101	101	80-131	1	50				
2,6-Dinitrotoluene	109	108	80-127	0	50				
HMX	99	101	63-128	2	50				
Nitrobenzene	101	102	80-125	1	50				
Nitroglycerin	93	96	80-120	2	50				
2-Nitrotoluene	104	105	80-122	1	50				
3-Nitrotoluene	104	106	72-119	2	50				
4-Nitrotoluene	103	104	80-125	1	50				
PETN	98	100	80-121	2	50				
RDX	97	98	75-129	1	50				
Tetryl	109	108	55-174	1	50				
1,3,5-Trinitrobenzene	112	114	82-126	2	50				
2,4,6-Trinitrotoluene	104	104	82-130	1	50				
Batch number: 103430011A	Sample number(s): 6157193-6157197,6157201-6157202 UNSPK: 6157195								
17a Formaldehyde by 8315A	104	101	80-120	3	50				
Batch number: 103420019A	Sample number(s): 6157201 UNSPK: P151502								
6a Perchlorate EPA 6850	101	106	70-130	5	30				
Batch number: 103440016A	Sample number(s): 6157193-6157197,6157199,6157201-6157203 UNSPK: 6157195								
PCB-1016	92	90	29-146	2	50				
PCB-1260	91	89	39-149	3	50				
Batch number: 103540015A	Sample number(s): 6157193-6157197,6157201-6157202 UNSPK: 6157195								
EFH (C12-C14)	73	0*	49-123	200*	20				
EFH (C15-C20)	97	119	49-123	21*	20				
EFH (C21-C30)	-184*	507*	49-123	132*	20				
EFH (C30 - C40)	-449	1564	49-123	151*	20				
	(2)	(2)							
EFH (C8-C11)	56	0*	49-123	200*	20				
Batch number: 103420002A	Sample number(s): 6157193-6157197,6157201-6157202 UNSPK: 6157195								
Diethylene glycol	88	89	59-109	1	20				
Ethylene glycol	78	76	63-107	2	20				
Propylene glycol	91	90	63-107	1	20				
Batch number: 103430001A	Sample number(s): 6157193-6157197,6157201-6157202 UNSPK: 6157195								
Ethanol	80	80	24-143	1	20				
Isopropanol	84	83	75-125	1	20				
Methanol	90	91	45-136	2	20				
Batch number: 103440015A	Sample number(s): 6157193-6157197,6157201-6157202 UNSPK: 6157195								
m-Terphenyl	80	101	75-125	23*	20				
o-Terphenyl	102	108	75-125	5	20				
p-Terphenyl	79	98	75-125	21*	20				
Batch number: 103431026001A	Sample number(s): 6157193-6157194,6157199,6157201-6157203 UNSPK: 6157194 BKG: 6157194								
Antimony	48*	41*	75-125	14	20	0.0648 J	0.0577 U	200* (1)	20
Arsenic	170*	139*	75-125	10	20	3.96	3.47	13	20
Beryllium	128*	109	75-125	12	20	0.513	0.461	11 (1)	20
Cadmium	121	124	75-125	1	20	0.0980 J	0.119	19 (1)	20

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Quality Control Summary

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Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

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
Chromium	145*	138*	75-125	3	20	17.1	15.7	8	20
Cobalt	114	105	75-125	9	20	4.41	4.87	10	20
Copper	126*	126*	75-125	1	20	7.01	6.70	5	20
Lead	195*	135*	75-125	18	20	5.26	4.45	17	20
Nickel	138*	120	75-125	9	20	9.15	8.81	4	20
Silver	120	116	75-125	6	20	0.0294 J	0.0247 J	17 (1)	20
Thallium	120	120	75-125	1	20	0.235	0.192	20 (1)	20
Vanadium	197*	169*	75-125	6	20	32.3	29.5	9	20
Zinc	142 (2)	60 (2)	75-125	13	20	52.5	39.8	27*	20
Batch number: 103431026001B Sample number(s): 6157193-6157194,6157199,6157201-6157203 UNSPK: 6157194 BKG: 6157194									
Selenium	88	89	75-125	0	20	0.134 J	0.110 J	20 (1)	20
Batch number: 103431026001C Sample number(s): 6157193-6157194,6157199,6157201-6157203 UNSPK: 6157194 BKG: 6157194									
Molybdenum	111	112	75-125	1	20	0.502	0.491	2	20
Batch number: 103431026001D Sample number(s): 6157193-6157194,6157199,6157201-6157203 UNSPK: 6157194 BKG: 6157194									
Barium	292 (2)	577 (2)	75-125	22*	20	82.7	76.1	8	20
Batch number: 103435708002 Sample number(s): 6157193-6157194,6157199,6157201-6157203 UNSPK: P158231 BKG: P158231									
Aluminum	3178 (2)	2676 (2)	75-125	5	20	13,000	13,200	2	20
Boron	95	95	84-115	2	20	4.27 J	4.04 J	6 (1)	20
Calcium	395 (2)	382 (2)	75-125	0	20	2,740	3,270	18	20
Iron	3285 (2)	6801 (2)	75-125	17	20	16,100	18,400	13	20
Lithium	101	106	82-114	5	20	18.5	20.7	11	20
Magnesium	418 (2)	633 (2)	75-125	10	20	3,280	3,720	13	20
Manganese	-34 (2)	17 (2)	75-125	9	20	277	229	19	20
Phosphorus	124	220*	75-125	23*	20	250	303	19	20
Potassium	139*	197*	75-125	15	20	2,280	2,650	15	20
Sodium	97	100	75-125	4	20	120	127	6 (1)	20
Strontium	100	106	75-115	7	20	14.9	16.1	7	20
Tin	96	96	80-110	2	20	2.23 J	2.54 J	13 (1)	20
Titanium	255 (2)	435 (2)	75-125	14	20	971	1,060	8	20
Zirconium	101	101	75-125	2	20	0.882 J	1.36 J	42* (1)	20
Batch number: 103435711002 Sample number(s): 6157193-6157194,6157199,6157201-6157203 UNSPK: P158225 BKG: P158225									
Mercury	101	101	65-135	1	20	0.0047 J	0.0032 J	38* (1)	20
Batch number: 10348348201A Sample number(s): 6157193-6157194 UNSPK: P154851 BKG: P154851									
11a Anions by 300.0 - Fluoride	97		80-120			0.80 U	0.87 J	200* (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			2.7	2.7	1 (1)	20
Batch number: 10348348201B Sample number(s): 6157195-6157196,6157198-6157199,6157201-6157203 UNSPK: 6157195 BKG: 6157195									
11a Anions by 300.0 - Fluoride	135*		80-120			0.80 U	4.1	200* (1)	20
11a Anions by 300.0 - Nitrate	40*		80-120			14.3	3.1	130* (1)	20

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Quality Control Summary

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Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

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
Batch number: 10351102201A	Sample number(s): 6157193-6157196,6157198,6157201-6157202 UNSPK: 6157195 BKG:								
21a Cyanide by 9012B	108		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 10351351201A	Sample number(s): 6157193-6157196,6157198-6157199,6157201-6157203 UNSPK: 6157195								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10359243201A	Sample number(s): 6157193-6157196,6157198-6157199,6157201-6157203 UNSPK: 6157195								
3a Cr VI by EPA 7199	93		75-125			0.20 U	0.41 J	200* (1)	20
Batch number: 10342039402A	Sample number(s): 6157193-6157195,6157198-6157199,6157201-6157203 BKG: 6157195								
22a pH by 9045C						8.00	8.01	0	1
Batch number: 10342182102A	Sample number(s): 6157193-6157194 BKG: P156759								
Oxidation Reduction Potential						150	149	1	6
Batch number: 10342182102B	Sample number(s): 6157195,6157198-6157199,6157201-6157203 BKG: 6157195								
Oxidation Reduction Potential						380	380	0	6
Batch number: 10343162401A	Sample number(s): 6157199,6157203 BKG: P148500								
28a Total Solids by 160.3						7.2	7.0	2	20
Batch number: 10356162401A	Sample number(s): 6157193-6157198,6157201-6157202 BKG: 6157195								
28a Total Solids by 160.3						9.4	9.8	4	20
28a Total Solids by 160.3						9.4	9.8	4	20
28a Total Solids by 160.3						9.4	9.8	4	20

Surrogate Quality Control

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

Analysis Name: 1a Volatile Organics EPA 8260B

Batch number: B103421BA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6157193	103	100	97	91
6157194	104	99	98	91
6157195	104	98	99	89
6157196	100	95	102	98
6157197	99	98	102	97
6157199	104	99	98	92
6157201	105	100	97	91
6157202	105	102	97	92
Blank	104	103	97	95
LCS	102	103	99	101
MS	100	95	102	98

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

Surrogate Quality Control

MSD	99	98	102	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103431AA
Toluene-d8

6157200 101
Blank 100
LCS 100
LCSD 100

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103432AA
Toluene-d8

6157193 98
6157194 99
6157195 99
6157196 100
6157197 98
6157199 100
6157201 99
6157202 99
Blank 99
LCS 100
LCSD 100
MS 100
MSD 98

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103422AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6157200	101	100	106	100
Blank	101	99	107	100
LCS	102	101	107	101
LCSD	103	105	108	102

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

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10344SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6157193	88	86	78	81	91	89
6157194	87	85	76	80	88	88
6157195	89	88	82	83	93	91
6157196	91	88	85	82	89	88
6157197	95	94	87	87	95	90
6157199	90	89	79	79	90	88
6157201	86	86	70	79	88	80

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

Surrogate Quality Control

6157202	91	88	79	80	91	88
6157203	85	85	74	79	90	84
Blank	85	84	86	80	90	86
LCS	87	86	87	80	91	84
MS	91	88	85	82	89	88
MSD	95	94	87	87	95	90

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

Analysis Name: 4a Select SVOC EPA 8270SIM

Batch number: 10344SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6157193	92	83	82
6157194	88	83	82
6157195	87	81	82
6157196	89	81	82
6157197	92	83	83
6157199	77	73	76
6157201	87	83	83
6157202	82	76	76
6157203	93	85	83
Blank	94	89	94
LCS	88	83	83
MS	89	81	82
MSD	92	83	83

Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C

Batch number: 10345SLF026

N-Nitrosodimethylamine-
d6

6157193	77
6157194	109
6157195	97
6157196	91
6157197	82
6157201	100
6157202	97
Blank	97
LCS	91
MS	91
MSD	82

Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas

Batch number: 10343A34A

Trifluorotoluene-F

6157193	80
6157194	83
6157195	85
6157196	81
6157197	86

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

Surrogate Quality Control

6157201 83
6157202 79
Blank 96
LCS 92
LCSD 93
MS 81
MSD 86

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10343A94A
Trifluorotoluene-F

6157200 91
Blank 84
LCS 92
LCSD 88
MS 88

Limits: 63-135

Analysis Name: 20a Energetics by 8330A
Batch number: 103420005A
2-Nitro-m-xylene

6157193 106
6157194 113
6157195 115
6157196 112
6157197 109
6157201 112
6157202 104
Blank 116
LCS 120
LCSD 115
MS 112
MSD 109

Limits: 80-146

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103430011A
Butyraldehyde

6157193 116
6157194 111
6157195 102
6157196 113
6157197 111
6157201 109
6157202 112
Blank 108
LCS 113
MS 113
MSD 111

*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

Surrogate Quality Control

Limits: 64-126

Analysis Name: 8a PCBs/PCTs by 8082

Batch number: 103440016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6157193	97	92
6157194	109	96
6157195	100	92
6157196	96	95
6157197	99	89
6157199	105	105
6157201	95	89
6157202	104	97
6157203	91	89
Blank	99	105
LCS	106	105
LCSD	107	109
MS	96	95
MSD	99	89

Limits: 53-139 45-120

Analysis Name: 27a Glycols by 8015B

Batch number: 103420002A

	Tetramethylene glycol
6157193	84
6157194	86
6157195	94
6157196	88
6157197	87
6157201	89
6157202	90
Blank	98
LCS	103
MS	88
MSD	87

Limits: 50-119

Analysis Name: 25a Alcohols by 8015B

Batch number: 103430001A

	Acetone
6157193	84
6157194	88
6157195	91
6157196	86
6157197	88
6157201	104
6157202	75
Blank	102
LCS	99
MS	86
MSD	88

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:11 PM

Group Number: 1224161

Surrogate Quality Control

Limits: 42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103440015A
n-Triacontane-d62

6157193	81
6157194	95
6157195	94
6157196	206*
6157197	96
6157201	94
6157202	95
Blank	100
LCS	97
MS	206*
MSD	96

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103540015A
Chlorobenzene Orthoterphenyl

	Chlorobenzene	Orthoterphenyl
6157193	53	74
6157194	60	82
6157195	66	72
6157196	78	88
6157197	71	82
6157201	49	68
6157202	70	80
Blank	76	81
LCS	77	87
MS	78	88
MSD	71	82

Limits: 37-125

47-145

*- 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.

CHAIN OF CUSTODY RECORD

13013 1224161 0157193-203

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING																						Other Instructions and Notes					
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																											
Samplers: (Signature) <i>[Signature]</i>																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260S1M	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*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	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
DUP12-SA5C-QC-120610	12.6.10	0957	soil	none	3-4 oz. jars				X															X	X	X	Alcohols were added per PB, NM 12/19/10
DUP12-SA5C-QC-120610	12.6.10	0957	soil	none	5 Encore samplers	X	X		X																		
SL-018-SA5C-SB-4.0-5.0	12.6.10	1337	soil	none	3-4 oz. jars				X															X	X	X	
SL-018-SA5C-SB-4.5	12.6.10	1333	soil	none	5 Encore samplers	X	X		X																		
SL-028-SA5C-SB-4.0-5.0MS	12.6.10	0950	soil	none	9-4 oz. jars				X															X	X	X	
SL-028-SA5C-SB-4.5MS	12.6.10	0950	soil	none	15 Encore samplers	X	X		X																		
SL-024-SA5C-SB-4.5	12.6.10	1128	soil	none	4 Encore samplers	X	X																				
TB-120610	12.6.10	1630	water	HCl	4-40 ml vials	X	X		X																		
SL-025-SA5C-SB-4.0-5.0	12.6.10	1513	soil	none	2-16 oz. jars			X			X	X	X	X	X	X	X										
SL-025-SA5C-SB-4.0-5.0	12.6.10	1513	soil	none	1-16 oz. jars													X	X	X	X	X	X	X			
SL-025-SA5C-SB-4.5	12.6.10	1510	soil	none	5 Encore samplers	X	X		X																		
SL-025-SA5C-SB-4.0-5.0	12.6.10	1513	soil	none	2-4 oz. jars				X																X	X	forgot to fill a third jar
SL-025-SA5C-SB-9.0-10.0	12.6.10	1524	soil	none	2-16 oz. jars			X			X	X	X	X	X	X											
SL-025-SA5C-SB-9.0-10.0	12.6.10	1524	soil	none	1-16 oz. jars													X	X	X	X	X	X	X			
SL-025-SA5C-SB-9.5	12.6.10	1524	soil	none	5 Encore samplers	X	X		X																		
SL-025-SA5C-SB-9.0-10.0	12.6.10	1524	soil	none	3-4 oz. jars				X																X	X	
Relinquished by: (Signature) <i>[Signature]</i>		Date/Time 12.06.10 1630		Received for Laboratory by: (Signature) <i>[Signature]</i>		Date/Time 12/1/10 945																		Laboratory: Lancaster Laboratories, Inc.			
Received by: (Signature) <i>[Signature]</i>		Date/Time		Airbill No. 00732992		Tracking Number 869514318174																		Cooler 2			

CHAIN OF CUSTODY RECORD

[illegible]

870059364628

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

January 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/08/2010

Group Number: 1224331

SDG: DE030

PO Number: 1203-004-007-AL

Release Number: Tracking #11667

State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-026-SA5C-SB-4.0-5.0 Soil	6158224
SL-026-SA5C-SB-9.0-10.0 Soil	6158225
SL-027-SA5C-SB-2.5-3.5 Soil	6158226
SL-027-SA5C-SB-9.0-10.0 Soil	6158227
SL-019-SA5C-SB-4.0-5.0 Soil	6158228
SL-019-SA5C-SB-8.5-9.5 Soil	6158229
SL-014-SA5C-SB-4.0-5.0 Soil	6158230
SL-014-SA5C-SB-9.0-10.0 Soil	6158231
TB-120710 Water	6158232
EB13-SA5C-120710 Water	6158233

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

ELECTRONIC CDM Federal Services Program

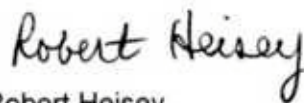
COPY TO

1 COPY TO Data Package Group

Attn: Todd Burgesser

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

Respectfully Submitted,



Robert Heisey
Senior Specialist



Analysis Report

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

Page 1 of 9

Sample Description: SL-026-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-4.0-5.0

LLI Sample # SW 6158224
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:30 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02645 SDG#: DE030-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11	7.0	8.4		0.96
06192	Benzene	71-43-2	0.11 U	0.11	4.2		0.96
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.35 U	0.35	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.2		0.96
06192	Bromoform	75-25-2	0.42 U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.26 U	0.26	4.2		0.96
06192	2-Butanone	78-93-3	1.3 U	1.3	8.4		0.96
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.2		0.96
06192	Chloroethane	75-00-3	0.14 U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.2		0.96
06192	Chloroform	67-66-3	0.13 U	0.13	4.2		0.96
06192	Chloromethane	74-87-3	0.35 U	0.35	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.53 U	0.53	5.3		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74 U	0.74	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41 U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.12 U	0.12	4.2		0.96
06192	Freon 133a	75-88-7	0.53 U	0.53	5.3		0.96
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.4		0.96
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41 U	0.41	8.4		0.96
06192	Methylene Chloride	75-09-2	0.62 J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.2		0.96

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Sample Description: SL-026-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-4.0-5.0

LLI Sample # SW 6158224
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:30 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02645 SDG#: DE030-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.08 U	0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.2		0.96
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35 U	0.35	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42 U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18 U	0.18	4.2		0.96
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.8 U	4.8	14		21.85
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.3 U	18.3	36.6		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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Sample Description: SL-026-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-4.0-5.0

LLI Sample # SW 6158224
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:30 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02645 SDG#: DE030-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	37	U 37	180		1
04688	4-Methylphenol	106-44-5	37	U 37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	37	U 37	180		1
04688	4-Nitroaniline	100-01-6	73	U 73	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	550		1
04688	Phenol	108-95-2	18	U 18	180		1
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	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

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Sample Description: SL-026-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-4.0-5.0

LLI Sample # SW 6158224
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:30 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02645 SDG#: DE030-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.73 U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73 U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73 U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0		22.98
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U 82	160	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U 55	160	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	55	U 55	160	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	55	U 55	160	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	55	U 55	160	1000000 0	1
10132	HMX	2691-41-0	140	U 140	410	1000000 0	1
10132	Nitrobenzene	98-95-3	55	U 55	160	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	160	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	160	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	160	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1000000 0	1
10132	RDX	121-82-4	69	U 69	160	1000000 0	1
10132	Tetryl	479-45-8	84	U 84	160	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U 55	160	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U 55	160	1000000 0	1

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Sample Description: SL-026-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-4.0-5.0

LLI Sample # SW 6158224
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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02645 SDG#: DE030-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics								
SW-846 8315A			ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs								
SW-846 8082			ug/kg		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.								
GC Extractable TPH			SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.53	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	1.4		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous			SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	130	J	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous			SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected with the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.								
Terphenyls			SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals			SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	

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Sample Description: SL-026-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-4.0-5.0

LLI Sample # SW 6158224
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:30 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02645 SDG#: DE030-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,500	5.42	21.5		1
07914	Boron	7440-42-8	3.29 J	0.959	5.39		1
01650	Calcium	7440-70-2	1,780	6.60	21.5		1
01654	Iron	7439-89-6	18,300	5.07	21.5		1
01656	Lithium	7439-93-2	15.7	0.24	2.2		1
01657	Magnesium	7439-95-4	3,330	2.74	10.8		1
06958	Manganese	7439-96-5	412	0.0840	0.539		1
10145	Phosphorus	7723-14-0	159	0.603	10.8		1
01662	Potassium	7440-09-7	2,360	19.4	53.9		1
01667	Sodium	7440-23-5	86.5 J	40.2	108		1
07968	Strontium	7440-24-6	21.4	0.0668	0.539		1
06969	Tin	7440-31-5	2.42 J	1.08	10.8		1
06970	Titanium	7440-32-6	1,110	0.819	2.15		2
10146	Zirconium	7440-67-7	2.00 J	0.905	5.39		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0792 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	4.72	0.0640	0.427		2
06126	Barium	7440-39-3	141	0.115	0.427		2
06127	Beryllium	7440-41-7	0.790	0.0171	0.107		2
06128	Cadmium	7440-43-9	0.238	0.0384	0.107		2
06131	Chromium	7440-47-3	22.6	0.128	0.427		2
06132	Cobalt	7440-48-4	8.86	0.0213	0.107		2
06133	Copper	7440-50-8	13.2	0.0704	0.427		2
06135	Lead	7439-92-1	6.85	0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.865	0.0533	0.107		2
06139	Nickel	7440-02-0	15.5	0.107	0.427		2
06141	Selenium	7782-49-2	0.139 J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0315 J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.383	0.0320	0.107		2
06148	Vanadium	7440-62-2	43.6	0.0235	0.107		2
06149	Zinc	7440-66-6	54.3	0.597	3.20		2
		SW-846 7471A	mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5 J	0.88	1.6		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.92 J	0.22	1.1		1

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Sample Description: SL-026-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-4.0-5.0

LLI Sample # SW 6158224
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:30 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02645 SDG#: DE030-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.54	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	456	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	6.66	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Total Solids by 160.3	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-026-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	B103431AA	12/09/2010 15:25	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 14:19	Jason M Long	21.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:12	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:20	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034223213	12/08/2010 18:20	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034223213	12/08/2010 17:10	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLJ026	12/24/2010 12:46	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 10:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 02:47	Gregory J Drahovsky	1

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

Sample Description: SL-026-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-4.0-5.0

LLI Sample # SW 6158224
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:30 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02645 SDG#: DE030-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLJ026	12/13/2010 08:15	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 03:10	Marie D John	22.98
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:08	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 16:00	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 21:25	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 00:51	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 01:08	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 13:59	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103430002A	12/10/2010 06:14	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/13/2010 20:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103430002A	12/09/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 13:43	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 13:43	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/13/2010 13:47	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:26	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2

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Sample Description: SL-026-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-4.0-5.0

LLI Sample # SW 6158224
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:30 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02645 SDG#: DE030-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 19:43	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201B	12/15/2010 19:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 22:36	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 10:39	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:47	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182103A	12/08/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039403A	12/08/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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Sample Description: SL-026-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-9.0-10.0

LLI Sample # SW 6158225
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:35 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02691 SDG#: DE030-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12	6.3	7.6		0.83
06192	Benzene	71-43-2	0.09 U	0.09	3.8		0.83
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31 U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38 U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.24 U	0.24	3.8		0.83
06192	2-Butanone	78-93-3	1.2 U	1.2	7.6		0.83
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.8		0.83
06192	Chloroethane	75-00-3	0.12 U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28 U	0.28	3.8		0.83
06192	Chloroform	67-66-3	0.11 U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31 U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47 U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66 U	0.66	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37 U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.10 U	0.10	3.8		0.83
06192	Freon 133a	75-88-7	0.47 U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.6		0.83
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37 U	0.37	7.6		0.83
06192	Methylene Chloride	75-09-2	0.48 U	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.8		0.83

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

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Sample Description: SL-026-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-9.0-10.0

LLI Sample # SW 6158225
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:35 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02691 SDG#: DE030-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09 U	0.09	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.08 U	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.8		0.83
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31 U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38 U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16 U	0.16	3.8		0.83
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.8 U	4.8	14		21.15
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.0 U	19.0	37.9		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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Sample Description: SL-026-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-9.0-10.0

LLI Sample # SW 6158225
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:35 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02691 SDG#: DE030-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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
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	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U 0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U 0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U 0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	20		1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U 6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9		1

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

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

Sample Description: SL-026-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-9.0-10.0

LLI Sample # SW 6158225
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:35 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02691 SDG#: DE030-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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	0.78 J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1		21.74
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85	U 85	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U 57	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	57	U 57	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	57	U 57	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	57	U 57	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	430	1000000 0	1
10132	Nitrobenzene	98-95-3	57	U 57	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,400	1000000 0	1
10132	RDX	121-82-4	71	U 71	170	1000000 0	1
10132	Tetryl	479-45-8	87	U 87	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U 57	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U 57	170	1000000 0	1

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Sample Description: SL-026-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-9.0-10.0

LLI Sample # SW 6158225
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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02691 SDG#: DE030-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics		SW-846 8315A	ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	3,800	680	1,700		1
Pesticides/PCBs		SW-846 8082	ug/kg	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.

GC Extractable TPH		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg
10199	EFH (C12-C14)	n.a.	0.46 U	0.46	1.4	1
10199	EFH (C15-C20)	n.a.	0.46 U	0.46	1.4	1
10199	EFH (C21-C30)	n.a.	0.46 U	0.46	1.4	1
10199	EFH (C30 - C40)	n.a.	0.83 J	0.46	1.4	1
10199	EFH (C8-C11)	n.a.	0.46 U	0.46	1.4	1

GC Miscellaneous		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg
10501	Ethanol	64-17-5	150 J	110	570	1
10501	Isopropanol	67-63-0	110 U	110	570	1
10501	Methanol	67-56-1	130 J	110	570	1

GC Miscellaneous		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg
08283	Diethylene glycol	111-46-6	5.7 U	5.7	14	1
08283	Ethylene glycol	107-21-1	5.7 U	5.7	14	1
08283	Propylene glycol	57-55-6	5.7 U	5.7	14	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg
10318	m-Terphenyl	92-06-8	1.7 U	1.7	4.0	1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	4.0	1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	4.0	1

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg

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Sample Description: SL-026-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-9.0-10.0

LLI Sample # SW 6158225
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:35 by PH

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Suite 210
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Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02691 SDG#: DE030-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,700	5.50	21.9		1
07914	Boron	7440-42-8	3.00 J	0.974	5.47		1
01650	Calcium	7440-70-2	1,230	6.71	21.9		1
01654	Iron	7439-89-6	22,000	5.15	21.9		1
01656	Lithium	7439-93-2	22.2	0.24	2.2		1
01657	Magnesium	7439-95-4	4,390	2.78	10.9		1
06958	Manganese	7439-96-5	176	0.0853	0.547		1
10145	Phosphorus	7723-14-0	135	0.613	10.9		1
01662	Potassium	7440-09-7	1,890	19.7	54.7		1
01667	Sodium	7440-23-5	1,530	40.8	109		1
07968	Strontium	7440-24-6	19.7	0.0678	0.547		1
06969	Tin	7440-31-5	2.72 J	1.09	10.9		1
06970	Titanium	7440-32-6	1,380	0.831	2.19		2
10146	Zirconium	7440-67-7	2.35 J	0.919	5.47		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0663 U	0.0663	0.221		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.58	0.0663	0.442		2
06126	Barium	7440-39-3	69.1	0.119	0.442		2
06127	Beryllium	7440-41-7	0.699	0.0177	0.110		2
06128	Cadmium	7440-43-9	0.0477 J	0.0398	0.110		2
06131	Chromium	7440-47-3	23.2	0.133	0.442		2
06132	Cobalt	7440-48-4	4.38	0.0221	0.110		2
06133	Copper	7440-50-8	8.40	0.0729	0.442		2
06135	Lead	7439-92-1	5.81	0.0115	0.221		2
06138	Molybdenum	7439-98-7	1.18	0.0552	0.110		2
06139	Nickel	7440-02-0	11.5	0.110	0.442		2
06141	Selenium	7782-49-2	0.0622 J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0354 J	0.0133	0.110		2
06145	Thallium	7440-28-0	0.306	0.0331	0.110		2
06148	Vanadium	7440-62-2	43.1	0.0243	0.110		2
06149	Zinc	7440-66-6	45.3	0.619	3.31		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0053 J	0.0030	0.106		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	26.9	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5	0.91	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	15.2 J	10.2	34.1		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1

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Sample Description: SL-026-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-9.0-10.0

LLI Sample # SW 6158225
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:35 by PH

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02691 SDG#: DE030-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.57	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	419	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	7.02	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Total Solids by 160.3	n.a.	12.1	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-026-SA5C-SB-9.5.

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	B103431AA	12/09/2010 15:48	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 14:38	Jason M Long	21.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:19	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:20	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034223213	12/08/2010 18:21	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034223213	12/08/2010 17:20	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLJ026	12/24/2010 13:38	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 11:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 03:21	Gregory J Drahovsky	1

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Sample Description: SL-026-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-9.0-10.0

LLI Sample # SW 6158225
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02691 SDG#: DE030-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLJ026	12/13/2010 08:15	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 03:47	Marie D John	21.74
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:18	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 16:43	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 21:35	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 01:10	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 02:22	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 14:28	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103430002A	12/10/2010 06:30	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/13/2010 21:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103430002A	12/09/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 13:50	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 13:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/13/2010 13:54	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:30	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2

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

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

Sample Description: SL-026-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5C-SB-9.0-10.0

LLI Sample # SW 6158225
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 09:35 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02691 SDG#: DE030-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 19:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201B	12/15/2010 19:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201A	12/18/2010 23:00	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 10:52	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:51	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201A	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182103A	12/08/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039403A	12/08/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: SL-027-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-2.5-3.5

LLI Sample # SW 6158226
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:23 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02723 SDG#: DE030-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	89	6.2	7.4		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	0.31 U	0.31	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	16	1.1	7.4		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	0.28 U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11 U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31 U	0.31	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	0.65 U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	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	0.18 U	0.18	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	7.4		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	7.4		0.83
06192	Methylene Chloride	75-09-2	0.51 J	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

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

Sample Description: SL-027-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-2.5-3.5

LLI Sample # SW 6158226
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:23 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02723 SDG#: DE030-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	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	0.19 U	0.19	3.7		0.83
06192	Toluene	108-88-3	0.09 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	0.17 U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	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	0.31 U	0.31	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	0.19 U	0.19	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	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6 U	4.6	14		20.83
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.6 U	18.6	37.2		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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

Sample Description: SL-027-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-2.5-3.5

LLI Sample # SW 6158226
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:23 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02723 SDG#: DE030-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	37	U 37	190		1
04688	4-Methylphenol	106-44-5	37	U 37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	37	U 37	190		1
04688	4-Nitroaniline	100-01-6	74	U 74	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20		1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9		1

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

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

Sample Description: SL-027-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-2.5-3.5

LLI Sample # SW 6158226
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:23 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02723 SDG#: DE030-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.74 U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74 U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74 U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	0.9		21.26
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U 84	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U 56	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	56	U 56	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	56	U 56	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	56	U 56	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	420	1000000 0	1
10132	Nitrobenzene	98-95-3	56	U 56	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1000000 0	1
10132	RDX	121-82-4	70	U 70	170	1000000 0	1
10132	Tetryl	479-45-8	85	U 85	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U 56	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U 56	170	1000000 0	1

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

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

Sample Description: SL-027-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-2.5-3.5

LLI Sample # SW 6158226
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:23 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02723 SDG#: DE030-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics SW-846 8315A							
04173	17a Formaldehyde by 8315A	50-00-0	670 U	670	1,700	ug/kg	1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	ug/kg	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	ug/kg	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	ug/kg	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	ug/kg	1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9	ug/kg	1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9	ug/kg	1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9	ug/kg	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	ug/kg	1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9	ug/kg	1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9	ug/kg	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	ug/kg	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	ug/kg	1

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

GC Extractable TPH SW-846 8015B modified							
10199	EFH (C12-C14)	n.a.	0.45 U	0.45	1.3	mg/kg	1
10199	EFH (C15-C20)	n.a.	0.45 U	0.45	1.3	mg/kg	1
10199	EFH (C21-C30)	n.a.	1.9	0.45	1.3	mg/kg	1
10199	EFH (C30 - C40)	n.a.	3.5	0.45	1.3	mg/kg	1
10199	EFH (C8-C11)	n.a.	0.45 U	0.45	1.3	mg/kg	1

GC Miscellaneous SW-846 8015B							
10501	Ethanol	64-17-5	200 J	110	560	ug/kg	1
10501	Isopropanol	67-63-0	110 U	110	560	ug/kg	1
10501	Methanol	67-56-1	290 J	110	560	ug/kg	1

GC Miscellaneous SW-846 8015B modified							
08283	Diethylene glycol	111-46-6	5.6 U	5.6	14	mg/kg	1
08283	Ethylene glycol	107-21-1	6.7 U	6.7	14	mg/kg	1
08283	Propylene glycol	57-55-6	5.6 U	5.6	14	mg/kg	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected with the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.
Due to interfering peaks on the chromatogram, the value reported for ethylene glycol represents the lowest reporting limit attainable.

Terphenyls SW-846 8015B							
10318	m-Terphenyl	92-06-8	1.7 U	1.7	3.9	mg/kg	1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	3.9	mg/kg	1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	3.9	mg/kg	1

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

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

Sample Description: SL-027-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-2.5-3.5

LLI Sample # SW 6158226
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:23 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02723 SDG#: DE030-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,800	5.61	22.3		1
07914	Boron	7440-42-8	3.58 J	0.992	5.57		1
01650	Calcium	7440-70-2	2,000	6.83	22.3		1
01654	Iron	7439-89-6	18,100	5.25	22.3		1
01656	Lithium	7439-93-2	17.4	0.25	2.2		1
01657	Magnesium	7439-95-4	3,550	2.83	11.1		1
06958	Manganese	7439-96-5	377	0.0870	0.557		1
10145	Phosphorus	7723-14-0	189	0.624	11.1		1
01662	Potassium	7440-09-7	2,660	20.1	55.7		1
01667	Sodium	7440-23-5	63.5 J	41.6	111		1
07968	Strontium	7440-24-6	22.6	0.0691	0.557		1
06969	Tin	7440-31-5	2.65 J	1.11	11.1		1
06970	Titanium	7440-32-6	1,170	0.847	2.23		2
10146	Zirconium	7440-67-7	2.19 J	0.936	5.57		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0643 U	0.0643	0.214		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.54	0.0643	0.429		2
06126	Barium	7440-39-3	121	0.116	0.429		2
06127	Beryllium	7440-41-7	0.634	0.0172	0.107		2
06128	Cadmium	7440-43-9	0.199	0.0386	0.107		2
06131	Chromium	7440-47-3	17.8	0.129	0.429		2
06132	Cobalt	7440-48-4	5.85	0.0214	0.107		2
06133	Copper	7440-50-8	10.0	0.0707	0.429		2
06135	Lead	7439-92-1	5.12	0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.550	0.0536	0.107		2
06139	Nickel	7440-02-0	11.7	0.107	0.429		2
06141	Selenium	7782-49-2	0.129 J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0441 J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.321	0.0322	0.107		2
06148	Vanadium	7440-62-2	34.2	0.0236	0.107		2
06149	Zinc	7440-66-6	42.9	0.600	3.22		2
		SW-846 7471A	mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5 J	0.89	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	17.4 J	10.0	33.4		1
		SW-846 7199	mg/kg	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

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

Sample Description: SL-027-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-2.5-3.5

LLI Sample # SW 6158226
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:23 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02723 SDG#: DE030-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.54		1
		ASTM D1498	mV	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.48	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	10.3	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-027-SA5C-SB-3.0.

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

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	B103431AA	12/09/2010 16:10	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 14:58	Jason M Long	20.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:20	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034223213	12/08/2010 18:22	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034223213	12/08/2010 17:30	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLJ026	12/24/2010 13:56	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 11:33	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 03:54	Gregory J Drahovsky	1

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

Sample Description: SL-027-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-2.5-3.5

LLI Sample # SW 6158226
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:23 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02723 SDG#: DE030-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLJ026	12/13/2010 08:15	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 04:23	Marie D John	21.26
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:28	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 17:25	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 21:44	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 01:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 02:47	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 14:43	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103430002A	12/10/2010 05:42	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/13/2010 22:14	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103430002A	12/09/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 14:04	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 14:04	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/13/2010 14:08	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:33	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2

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

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

Sample Description: SL-027-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-2.5-3.5

LLI Sample # SW 6158226
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:23 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02723 SDG#: DE030-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:39	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 20:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201B	12/15/2010 20:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201B	12/18/2010 23:24	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 11:05	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201B	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182103A	12/08/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039403A	12/08/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: SL-027-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-9.0-10.0

LLI Sample # SW 6158227
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:25 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02791 SDG#: DE030-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8 U	6.8	8.2		0.9
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.2 U	1.2	8.2		0.9
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51 U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51 U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	0.49 J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.9

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Sample Description: SL-027-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-9.0-10.0

LLI Sample # SW 6158227
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:25 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02791 SDG#: DE030-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.1		0.9
06192	Toluene	108-88-3	0.08 J	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.1		0.9
06192	o-Xylene	95-47-6	0.17 U	0.17	4.1		0.9
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		23.06
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.0 U	19.0	38.1		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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Sample Description: SL-027-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-9.0-10.0

LLI Sample # SW 6158227
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:25 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02791 SDG#: DE030-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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
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	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	6.9	U 6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9		1

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Sample Description: SL-027-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-9.0-10.0

LLI Sample # SW 6158227
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:25 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02791 SDG#: DE030-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
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	6.9 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
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0		22.32
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U 86	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U 57	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	57	U 57	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	57	U 57	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	57	U 57	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	430	1000000 0	1
10132	Nitrobenzene	98-95-3	57	U 57	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,400	1000000 0	1
10132	RDX	121-82-4	71	U 71	170	1000000 0	1
10132	Tetryl	479-45-8	87	U 87	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U 57	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U 57	170	1000000 0	1

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Sample Description: SL-027-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-9.0-10.0

LLI Sample # SW 6158227
LLI Group # 1224331
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Project Name: SSFL Area IV Collocated Soil Sampling

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02791 SDG#: DE030-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics SW-846 8315A							
04173	17a Formaldehyde by 8315A	50-00-0	680 U	680	1,700	ug/kg	1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8	ug/kg	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8	ug/kg	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.8	ug/kg	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	1.9	ug/kg	1
10225	PCB-1221	11104-28-2	0.57 U	0.57	1.9	ug/kg	1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9	ug/kg	1
10225	PCB-1242	53469-21-9	0.57 U	0.57	1.9	ug/kg	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	1.9	ug/kg	1
10225	PCB-1254	11097-69-1	0.38 U	0.38	1.9	ug/kg	1
10225	PCB-1260	11096-82-5	0.38 U	0.38	1.9	ug/kg	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	1.9	ug/kg	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	1.9	ug/kg	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH SW-846 8015B modified							
10199	EFH (C12-C14)	n.a.	0.46 U	0.46	1.4	mg/kg	1
10199	EFH (C15-C20)	n.a.	0.46 U	0.46	1.4	mg/kg	1
10199	EFH (C21-C30)	n.a.	0.46 U	0.46	1.4	mg/kg	1
10199	EFH (C30 - C40)	n.a.	0.63 J	0.46	1.4	mg/kg	1
10199	EFH (C8-C11)	n.a.	0.46 U	0.46	1.4	mg/kg	1
GC Miscellaneous SW-846 8015B							
10501	Ethanol	64-17-5	250 J	110	570	mg/kg	1
10501	Isopropanol	67-63-0	110 U	110	570	mg/kg	1
10501	Methanol	67-56-1	160 J	110	570	mg/kg	1
GC Miscellaneous SW-846 8015B modified							
08283	Diethylene glycol	111-46-6	5.7 U	5.7	14	mg/kg	1
08283	Ethylene glycol	107-21-1	5.7 U	5.7	14	mg/kg	1
08283	Propylene glycol	57-55-6	5.7 U	5.7	14	mg/kg	1
The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected with the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls SW-846 8015B							
10318	m-Terphenyl	92-06-8	1.7 U	1.7	4.0	mg/kg	1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	4.0	mg/kg	1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	4.0	mg/kg	1
Metals SW-846 6010B							

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Sample Description: SL-027-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-9.0-10.0

LLI Sample # SW 6158227
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:25 by PH

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14420 Albemarle Point Place
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Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02791 SDG#: DE030-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,000	5.57	22.2		1
07914	Boron	7440-42-8	2.91 J	0.986	5.54		1
01650	Calcium	7440-70-2	1,750	6.79	22.2		1
01654	Iron	7439-89-6	20,900	5.22	22.2		1
01656	Lithium	7439-93-2	21.9	0.24	2.2		1
01657	Magnesium	7439-95-4	4,290	2.82	11.1		1
06958	Manganese	7439-96-5	268	0.0864	0.554		1
10145	Phosphorus	7723-14-0	137	0.621	11.1		1
01662	Potassium	7440-09-7	1,460	19.9	55.4		1
01667	Sodium	7440-23-5	1,070	41.3	111		1
07968	Strontium	7440-24-6	24.7	0.0687	0.554		1
06969	Tin	7440-31-5	2.40 J	1.11	11.1		1
06970	Titanium	7440-32-6	1,090	0.842	2.22		2
10146	Zirconium	7440-67-7	1.54 J	0.931	5.54		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0678 J	0.0678	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	3.21	0.0678	0.452		2
06126	Barium	7440-39-3	112	0.122	0.452		2
06127	Beryllium	7440-41-7	0.581	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.113 J	0.0407	0.113		2
06131	Chromium	7440-47-3	23.8	0.136	0.452		2
06132	Cobalt	7440-48-4	4.52	0.0226	0.113		2
06133	Copper	7440-50-8	8.18	0.0746	0.452		2
06135	Lead	7439-92-1	5.43	0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.337	0.0565	0.113		2
06139	Nickel	7440-02-0	11.6	0.113	0.452		2
06141	Selenium	7782-49-2	0.0452 U	0.0452	0.452		2
06142	Silver	7440-22-4	0.0564 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.278	0.0339	0.113		2
06148	Vanadium	7440-62-2	36.4	0.0249	0.113		2
06149	Zinc	7440-66-6	49.1	0.633	3.39		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.9	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8	0.91	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1

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

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

Sample Description: SL-027-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-9.0-10.0

LLI Sample # SW 6158227
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:25 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02791 SDG#: DE030-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	410	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.57	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Total Solids by 160.3	n.a.	12.4	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-027-SA5C-SB-9.5.

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	B103431AA	12/09/2010 16:33	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 15:17	Jason M Long	23.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:39	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:20	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034223213	12/08/2010 18:21	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034223213	12/08/2010 17:38	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLJ026	12/24/2010 14:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 11:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 04:27	Gregory J Drahovsky	1

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

Sample Description: SL-027-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-9.0-10.0

LLI Sample # SW 6158227
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:25 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02791 SDG#: DE030-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLJ026	12/13/2010 08:15	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 08:25	Marie D John	22.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:37	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 18:07	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 21:54	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 01:47	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 03:12	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 14:57	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103430002A	12/10/2010 05:58	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/13/2010 22:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103430002A	12/09/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 14:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 14:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/13/2010 14:15	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:37	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2

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

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Sample Description: SL-027-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5C-SB-9.0-10.0

LLI Sample # SW 6158227
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 11:25 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

02791 SDG#: DE030-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 20:27	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201B	12/15/2010 20:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201B	12/19/2010 01:01	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 11:18	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:53	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201B	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182103A	12/08/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039403A	12/08/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: SL-019-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-4.0-5.0

LLI Sample # SW 6158228
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:55 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01945 SDG#: DE030-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2 U	6.2	7.4		0.84
06192	Benzene	71-43-2	0.09 U	0.09	3.7		0.84
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.7		0.84
06192	Bromochloromethane	74-97-5	0.31 U	0.31	3.7		0.84
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.7		0.84
06192	Bromoform	75-25-2	0.37 U	0.37	3.7		0.84
06192	Bromomethane	74-83-9	0.23 U	0.23	3.7		0.84
06192	2-Butanone	78-93-3	1.1 U	1.1	7.4		0.84
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.7		0.84
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.7		0.84
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.7		0.84
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.7		0.84
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.7		0.84
06192	Chloroethane	75-00-3	0.12 U	0.12	3.7		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28 U	0.28	3.7		0.84
06192	Chloroform	67-66-3	0.11 U	0.11	3.7		0.84
06192	Chloromethane	74-87-3	0.31 U	0.31	3.7		0.84
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.7		0.84
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.7		0.84
06192	Chlorotrifluoroethene	79-38-9	0.47 U	0.47	4.7		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65 U	0.65	3.7		0.84
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.7		0.84
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.7		0.84
06192	Dibromomethane	74-95-3	0.22 U	0.22	3.7		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08 U	0.08	3.7		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.7		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.7		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.7		0.84
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.7		0.84
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.7		0.84
06192	1,1-Dichloroethene	75-35-4	0.36 U	0.36	3.7		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.7		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.7		0.84
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.7		0.84
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.7		0.84
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.7		0.84
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.7		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.7		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.7		0.84
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.7		0.84
06192	Freon 113	76-13-1	0.10 U	0.10	3.7		0.84
06192	Freon 133a	75-88-7	0.47 U	0.47	4.7		0.84
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.7		0.84
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.4		0.84
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.7		0.84
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.7		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.7		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	7.4		0.84
06192	Methylene Chloride	75-09-2	0.41 J	0.22	3.7		0.84
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.7		0.84

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

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

Sample Description: SL-019-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-4.0-5.0

LLI Sample # SW 6158228
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:55 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01945 SDG#: DE030-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09 U	0.09	3.7		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10	3.7		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21 U	0.21	3.7		0.84
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.7		0.84
06192	Toluene	108-88-3	0.07 U	0.07	3.7		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.7		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.7		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.7		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25 U	0.25	3.7		0.84
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.7		0.84
06192	Trichlorofluoromethane	75-69-4	0.27 U	0.27	3.7		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.31 U	0.31	3.7		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37 U	0.37	3.7		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.7		0.84
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.7		0.84
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.7		0.84
06192	o-Xylene	95-47-6	0.16 U	0.16	3.7		0.84
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.4 U	4.4	13		19.94
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.6 U	18.6	37.1		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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Sample Description: SL-019-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-4.0-5.0

LLI Sample # SW 6158228
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:55 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01945 SDG#: DE030-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	37	U 37	190		1
04688	4-Methylphenol	106-44-5	37	U 37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	37	U 37	190		1
04688	4-Nitroaniline	100-01-6	74	U 74	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20		1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9		1

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Sample Description: SL-019-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-4.0-5.0

LLI Sample # SW 6158228
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:55 by PH

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01945 SDG#: DE030-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.74 U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74 U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74 U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	0.9		19.72
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U 84	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U 56	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	56	U 56	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	56	U 56	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	56	U 56	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	420	1000000 0	1
10132	Nitrobenzene	98-95-3	56	U 56	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1000000 0	1
10132	RDX	121-82-4	70	U 70	170	1000000 0	1
10132	Tetryl	479-45-8	85	U 85	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U 56	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U 56	170	1000000 0	1

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SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-4.0-5.0

LLI Sample # SW 6158228
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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	670 U	670	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45 U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45 U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.55 J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	1.2 J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45 U	0.45	1.3		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	260 J	110	560		1
10501	Isopropanol	67-63-0	110 U	110	560		1
10501	Methanol	67-56-1	190 J	110	560		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6 U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6 U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6 U	5.6	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	3.9		1
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,500	5.39	21.4		1
07914	Boron	7440-42-8	5.08 J	0.953	5.35		1
01650	Calcium	7440-70-2	2,800	6.56	21.4		1
01654	Iron	7439-89-6	20,100	5.04	21.4		1

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Sample Description: SL-019-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-4.0-5.0

LLI Sample # SW 6158228
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:55 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01945 SDG#: DE030-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	20.7	0.24	2.1		1
01657	Magnesium	7439-95-4	3,810	2.72	10.7		1
06958	Manganese	7439-96-5	289	0.0835	0.535		1
10145	Phosphorus	7723-14-0	169	0.600	10.7		1
01662	Potassium	7440-09-7	2,450	19.3	53.5		1
01667	Sodium	7440-23-5	99.2 J	39.9	107		1
07968	Strontium	7440-24-6	21.2	0.0664	0.535		1
06969	Tin	7440-31-5	2.78 J	1.07	10.7		1
06970	Titanium	7440-32-6	1,160	0.814	2.14		2
10146	Zirconium	7440-67-7	1.95 J	0.899	5.35		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0743 J	0.0668	0.223		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.90	0.0668	0.445		2
06126	Barium	7440-39-3	116	0.120	0.445		2
06127	Beryllium	7440-41-7	0.785	0.0178	0.111		2
06128	Cadmium	7440-43-9	0.129	0.0401	0.111		2
06131	Chromium	7440-47-3	23.3	0.134	0.445		2
06132	Cobalt	7440-48-4	7.93	0.0223	0.111		2
06133	Copper	7440-50-8	9.40	0.0735	0.445		2
06135	Lead	7439-92-1	7.35	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.509	0.0557	0.111		2
06139	Nickel	7440-02-0	13.9	0.111	0.445		2
06141	Selenium	7782-49-2	0.104 J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0540 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.338	0.0334	0.111		2
06148	Vanadium	7440-62-2	47.9	0.0245	0.111		2
06149	Zinc	7440-66-6	51.9	0.624	3.34		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0044 J	0.0031	0.109		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.6	0.89	1.7		1
		EPA 314.0	ug/kg	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	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1

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Sample Description: SL-019-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-4.0-5.0

LLI Sample # SW 6158228
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:55 by PH

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Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01945 SDG#: DE030-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	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	Std. Units	
00394	22a pH by 9045C	n.a.	7.97	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	10.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-019-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	B103431AA	12/09/2010 17:17	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 15:37	Jason M Long	19.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:49	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:21	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034223213	12/08/2010 18:21	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034223213	12/08/2010 17:45	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLJ026	12/24/2010 14:47	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 12:24	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 05:01	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLJ026	12/13/2010 08:15	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 09:02	Marie D John	19.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:44	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 18:50	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 22:03	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 02:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 03:37	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 15:12	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103430002A	12/10/2010 01:58	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/13/2010 23:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103430002A	12/09/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 14:19	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 14:19	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/13/2010 14:22	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:41	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2

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

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

Sample Description: SL-019-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-4.0-5.0

LLI Sample # SW 6158228
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:55 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01945 SDG#: DE030-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10348348201B	12/15/2010 20:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10348348201B	12/15/2010 20:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201B	12/19/2010 01:25	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 11:31	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201A	12/19/2010 15:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10348348201B	12/14/2010 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201B	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201A	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182103A	12/08/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039403A	12/08/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: SL-019-SA5C-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-8.5-9.5

LLI Sample # SW 6158229
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 14:04 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01989 SDG#: DE030-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.9 J	6.7	8.0		0.9
06192	Benzene	71-43-2	0.10 U	0.10	4.0		0.9
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40 U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2 U	1.2	8.0		0.9
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12 U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50 U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70 U	0.70	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11 U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50 U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.0		0.9
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	8.0		0.9
06192	Methylene Chloride	75-09-2	0.57 J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0		0.9

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

Sample Description: SL-019-SA5C-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-8.5-9.5

LLI Sample # SW 6158229
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 14:04 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01989 SDG#: DE030-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08 U	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0		0.9
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6 U	4.6	14		20.42
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.6 U	18.6	37.2		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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

Sample Description: SL-019-SA5C-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-8.5-9.5

LLI Sample # SW 6158229
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 14:04 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01989 SDG#: DE030-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	37	U 37	190		1
04688	4-Methylphenol	106-44-5	37	U 37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	37	U 37	190		1
04688	4-Nitroaniline	100-01-6	74	U 74	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20		1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9		1

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Sample Description: SL-019-SA5C-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-8.5-9.5

LLI Sample # SW 6158229
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 14:04 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01989 SDG#: DE030-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.74 U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74 U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74 U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	0.9		20.16
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U 84	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U 56	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	56	U 56	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	56	U 56	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	56	U 56	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	420	1000000 0	1
10132	Nitrobenzene	98-95-3	56	U 56	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1000000 0	1
10132	RDX	121-82-4	70	U 70	170	1000000 0	1
10132	Tetryl	479-45-8	85	U 85	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U 56	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U 56	170	1000000 0	1

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SL-019-SA5C-SB-8.5-9.5

LLI Sample # SW 6158229
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Project Name: SSFL Area IV Collocated Soil Sampling

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics SW-846 8315A							
04173	17a Formaldehyde by 8315A	50-00-0	ug/kg 4,500	ug/kg 670	ug/kg 1,700	ug/kg	1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	ug/kg	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9		1

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

GC Extractable TPH SW-846 8015B modified							
10199	EFH (C12-C14)	n.a.	0.45 U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45 U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45 U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.51 J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45 U	0.45	1.3		1

GC Miscellaneous SW-846 8015B							
10501	Ethanol	64-17-5	270 J	110	560		1
10501	Isopropanol	67-63-0	110 U	110	560		1
10501	Methanol	67-56-1	200 J	110	560		1

GC Miscellaneous SW-846 8015B modified							
08283	Diethylene glycol	111-46-6	5.6 U	5.6	14		1
08283	Ethylene glycol	107-21-1	13 U	13	14		1
08283	Propylene glycol	57-55-6	5.6 U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Terphenyls SW-846 8015B							
10318	m-Terphenyl	92-06-8	1.7 U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7 U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7 U	1.7	3.9		1

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SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-8.5-9.5

LLI Sample # SW 6158229
LLI Group # 1224331
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Project Name: SSFL Area IV Collocated Soil Sampling

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01989 SDG#: DE030-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,200	5.34	21.2		1
07914	Boron	7440-42-8	2.83 J	0.945	5.31		1
01650	Calcium	7440-70-2	1,980	6.51	21.2		1
01654	Iron	7439-89-6	18,700	5.00	21.2		1
01656	Lithium	7439-93-2	16.2	0.23	2.1		1
01657	Magnesium	7439-95-4	3,670	2.70	10.6		1
06958	Manganese	7439-96-5	120	0.0828	0.531		1
10145	Phosphorus	7723-14-0	118	0.595	10.6		1
01662	Potassium	7440-09-7	1,750	19.1	53.1		1
01667	Sodium	7440-23-5	311	39.6	106		1
07968	Strontium	7440-24-6	19.6	0.0658	0.531		1
06969	Tin	7440-31-5	2.24 J	1.06	10.6		1
06970	Titanium	7440-32-6	1,170	0.807	2.12		2
10146	Zirconium	7440-67-7	0.892 U	0.892	5.31		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0669 U	0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.14	0.0669	0.446		2
06126	Barium	7440-39-3	97.5	0.120	0.446		2
06127	Beryllium	7440-41-7	0.599	0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0559 J	0.0401	0.111		2
06131	Chromium	7440-47-3	21.2	0.134	0.446		2
06132	Cobalt	7440-48-4	3.97	0.0223	0.111		2
06133	Copper	7440-50-8	8.05	0.0736	0.446		2
06135	Lead	7439-92-1	6.41	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.818	0.0557	0.111		2
06139	Nickel	7440-02-0	8.93	0.111	0.446		2
06141	Selenium	7782-49-2	0.0446 U	0.0446	0.446		2
06142	Silver	7440-22-4	0.0372 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.373	0.0334	0.111		2
06148	Vanadium	7440-62-2	40.5	0.0245	0.111		2
06149	Zinc	7440-66-6	50.7	0.624	3.34		2
	SW-846 7471A		mg/kg	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	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3 J	0.89	1.7		1
	EPA 314.0		ug/kg	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	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1

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SSFL Area IV Collocated Soil Sampling
SL-019-SA5C-SB-8.5-9.5

LLI Sample # SW 6158229
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01989 SDG#: DE030-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	439	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.48	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Total Solids by 160.3	n.a.	10.3	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-019-SA5C-SB-9.0.

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	B103431AA	12/09/2010 17:40	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 15:57	Jason M Long	20.42
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:58	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:21	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034223213	12/08/2010 18:21	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034223213	12/08/2010 17:54	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLJ026	12/24/2010 15:05	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 12:49	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 05:36	Gregory J Drahovsky	1

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SL-019-SA5C-SB-8.5-9.5

LLI Sample # SW 6158229
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01989 SDG#: DE030-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLJ026	12/13/2010 08:15	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 09:38	Marie D John	20.16
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 17:53	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 19:32	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 22:13	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 02:24	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 04:02	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 15:27	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103430002A	12/10/2010 06:46	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/14/2010 00:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103430002A	12/09/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 14:26	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 14:26	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/13/2010 14:30	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:52	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201A	12/17/2010 14:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10350350201A	12/17/2010 14:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201B	12/19/2010 01:49	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 11:57	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201B	12/19/2010 15:56	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201A	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201B	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201B	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182103A	12/08/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039403A	12/08/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: SL-014-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-4.0-5.0

LLI Sample # SW 6158230
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:29 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01445 SDG#: DE030-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5 U	6.5	7.8		0.89
06192	Benzene	71-43-2	0.1 U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39 U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2 U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12 U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68 U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11 U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	0.45 J	0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9		0.89

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Sample Description: SL-014-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-4.0-5.0

LLI Sample # SW 6158230
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:29 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01445 SDG#: DE030-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1 U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	3.9		0.89
06192	Toluene	108-88-3	0.08 U	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17 U	0.17	3.9		0.89
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.2 U	5.2	15		23.63
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	39.8	18.2	36.4		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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

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

Sample Description: SL-014-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-4.0-5.0

LLI Sample # SW 6158230
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:29 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01445 SDG#: DE030-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
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
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	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	1.4	J 0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J 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	0.91	J 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	1.6	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	6.6	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	2.2	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

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Sample Description: SL-014-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-4.0-5.0

LLI Sample # SW 6158230
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:29 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01445 SDG#: DE030-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.73 U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73 U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73 U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20		1
10138	Phenanthrene	85-01-8	1.0 J	0.73	1.8		1
10138	Pyrene	129-00-0	2.3	0.73	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0		23.85
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U 82	160	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U 55	160	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	55	U 55	160	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	55	U 55	160	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	55	U 55	160	1000000 0	1
10132	HMX	2691-41-0	140	U 140	410	1000000 0	1
10132	Nitrobenzene	98-95-3	55	U 55	160	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	160	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	160	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	160	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1000000 0	1
10132	RDX	121-82-4	68	U 68	160	1000000 0	1
10132	Tetryl	479-45-8	84	U 84	160	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U 55	160	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U 55	160	1000000 0	1

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Sample Description: SL-014-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-4.0-5.0

LLI Sample # SW 6158230
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:29 by PH

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14420 Albemarle Point Place
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Chantilly VA 20151

Submitted: 12/08/2010 09:30

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01445 SDG#: DE030-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	660 U	660	1,600		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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	2.7 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	10	0.36	1.9		1
10225	PCB-1254	11097-69-1	17	1.8	9.3		5
10225	PCB-1260	11096-82-5	1.4 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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44 U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.96 J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	9.5	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	21	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44 U	0.44	1.3		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	320 J	110	550		1
10501	Isopropanol	67-63-0	110 U	110	550		1
10501	Methanol	67-56-1	260 J	110	550		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5 U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5 U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5 U	5.5	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6 U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6 U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6 U	1.6	3.8		1
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,800	5.29	21.0		1
07914	Boron	7440-42-8	3.02 J	0.935	5.25		1
01650	Calcium	7440-70-2	5,990	6.44	21.0		1
01654	Iron	7439-89-6	19,400	4.95	21.0		1

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

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

Sample Description: SL-014-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-4.0-5.0

LLI Sample # SW 6158230
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:29 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01445 SDG#: DE030-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	16.7	0.23	2.1		1
01657	Magnesium	7439-95-4	4,730	2.67	10.5		1
06958	Manganese	7439-96-5	230	0.0820	0.525		1
10145	Phosphorus	7723-14-0	1,120	1.18	21.0		2
01662	Potassium	7440-09-7	3,100	18.9	52.5		1
01667	Sodium	7440-23-5	175	39.2	105		1
07968	Strontium	7440-24-6	30.6	0.0652	0.525		1
06969	Tin	7440-31-5	1.73 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,250	0.799	2.10		2
10146	Zirconium	7440-67-7	0.883 U	0.883	5.25		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0637 U	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	2.76	0.0637	0.424		2
06126	Barium	7440-39-3	93.7	0.115	0.424		2
06127	Beryllium	7440-41-7	0.310	0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0747 J	0.0382	0.106		2
06131	Chromium	7440-47-3	10.7	0.127	0.424		2
06132	Cobalt	7440-48-4	5.78	0.0212	0.106		2
06133	Copper	7440-50-8	12.2	0.0700	0.424		2
06135	Lead	7439-92-1	3.67	0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.298	0.0531	0.106		2
06139	Nickel	7440-02-0	6.48	0.106	0.424		2
06141	Selenium	7782-49-2	0.0466 J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0163 J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.203	0.0318	0.106		2
06148	Vanadium	7440-62-2	35.5	0.0233	0.106		2
06149	Zinc	7440-66-6	53.7	0.594	3.18		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0239 J	0.0030	0.105		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.2	0.87	1.6		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.8		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.54		1

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

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

Sample Description: SL-014-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-4.0-5.0

LLI Sample # SW 6158230
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:29 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01445 SDG#: DE030-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	455	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	Std. Units	
00394	22a pH by 9045C	n.a.	8.53	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	8.5	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-014-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	B103431AA	12/09/2010 18:03	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 16:17	Jason M Long	23.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:07	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:21	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034223213	12/08/2010 18:21	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034223213	12/08/2010 18:03	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLJ026	12/24/2010 15:22	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 13:14	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 06:09	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLJ026	12/13/2010 08:15	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1

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

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

Sample Description: SL-014-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-4.0-5.0

LLI Sample # SW 6158230
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:29 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01445 SDG#: DE030-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 10:15	Marie D John	23.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:02	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 20:14	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103430011A	12/10/2010 22:22	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 02:42	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 03:01	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103430011A	12/09/2010 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 05:42	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 15:42	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103430002A	12/10/2010 02:14	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/14/2010 04:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103430002A	12/09/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 17:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 14:33	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 17:56	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 17:56	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 14:33	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 17:56	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 17:56	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/13/2010 14:37	Joanne M Gates	2
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 17:56	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 17:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 17:56	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 17:56	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/13/2010 14:37	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 17:56	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2

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

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

Sample Description: SL-014-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-4.0-5.0

LLI Sample # SW 6158230
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:29 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01445 SDG#: DE030-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201A	12/17/2010 15:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10350350201A	12/17/2010 15:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201B	12/19/2010 02:13	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 12:10	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201B	12/19/2010 15:59	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201A	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201B	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201B	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182103B	12/08/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039403A	12/08/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: SL-014-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-9.0-10.0

LLI Sample # SW 6158231
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:35 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01491 SDG#: DE030-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.9	7.3	8.7		0.99
06192	Benzene	71-43-2	0.11 U	0.11	4.4		0.99
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.4		0.99
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.4		0.99
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.4		0.99
06192	Bromoform	75-25-2	0.44 U	0.44	4.4		0.99
06192	Bromomethane	74-83-9	0.27 U	0.27	4.4		0.99
06192	2-Butanone	78-93-3	1.3 U	1.3	8.7		0.99
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.4		0.99
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.4		0.99
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.4		0.99
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.4		0.99
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.4		0.99
06192	Chloroethane	75-00-3	0.14 U	0.14	4.4		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.4		0.99
06192	Chloroform	67-66-3	0.13 U	0.13	4.4		0.99
06192	Chloromethane	74-87-3	0.36 U	0.36	4.4		0.99
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.4		0.99
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.4		0.99
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76 U	0.76	4.4		0.99
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.4		0.99
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.4		0.99
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.4		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.4		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.4		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.4		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.4		0.99
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.4		0.99
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.4		0.99
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.4		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.4		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.4		0.99
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.4		0.99
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.4		0.99
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.4		0.99
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.4		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.4		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.4		0.99
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.4		0.99
06192	Freon 113	76-13-1	0.12 U	0.12	4.4		0.99
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4		0.99
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.4		0.99
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.7		0.99
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.4		0.99
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.4		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.4		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.7		0.99
06192	Methylene Chloride	75-09-2	0.47 J	0.26	4.4		0.99
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.4		0.99

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Sample Description: SL-014-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-9.0-10.0

LLI Sample # SW 6158231
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:35 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01491 SDG#: DE030-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.4		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.4		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.4		0.99
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.4		0.99
06192	Toluene	108-88-3	0.09 U	0.09	4.4		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.4		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.4		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.4		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.4		0.99
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.4		0.99
06192	Trichlorofluoromethane	75-69-4	0.32 U	0.32	4.4		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.4		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.44 U	0.44	4.4		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.4		0.99
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.4		0.99
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.4		0.99
06192	o-Xylene	95-47-6	0.18 U	0.18	4.4		0.99
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.9 U	4.9	15		22.4
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	53.1	18.3	36.6		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	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

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Sample Description: SL-014-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-9.0-10.0

LLI Sample # SW 6158231
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:35 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01491 SDG#: DE030-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	37	U 37	180		1
04688	4-Methylphenol	106-44-5	37	U 37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	37	U 37	180		1
04688	4-Nitroaniline	100-01-6	73	U 73	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	550		1
04688	Phenol	108-95-2	18	U 18	180		1
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	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	0.45	J 0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.4	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.6	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	6.2	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	1.9	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	5.1	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	8.4	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	0.92	J 0.73	1.8		1

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Sample Description: SL-014-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-9.0-10.0

LLI Sample # SW 6158231
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:35 by PH

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01491 SDG#: DE030-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
			ug/kg	ug/kg	ug/kg	ug/kg	
10138	1-Methylnaphthalene	90-12-0	0.73 U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73 U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73 U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20		1
10138	Phenanthrene	85-01-8	2.3	0.73	1.8		1
10138	Pyrene	129-00-0	7.5	0.73	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
			mg/kg	mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1		22.6
Explosives SW-846 8330A							
			ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U 82	160	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U 55	160	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	55	U 55	160	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	55	U 55	160	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	55	U 55	160	1000000 0	1
10132	HMX	2691-41-0	140	U 140	410	1000000 0	1
10132	Nitrobenzene	98-95-3	55	U 55	160	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	160	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	160	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	160	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1000000 0	1
10132	RDX	121-82-4	69	U 69	160	1000000 0	1
10132	Tetryl	479-45-8	84	U 84	160	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U 55	160	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U 55	160	1000000 0	1

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SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-9.0-10.0

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		50-00-0	2,500	660	1,600		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	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	2.0 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	0.98 J	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.88 J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.64 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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44 U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.51 J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	7.0	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	16	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44 U	0.44	1.3		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	300 J	110	550		1
10501	Isopropanol	67-63-0	110 U	110	550		1
10501	Methanol	67-56-1	220 J	110	550		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5 U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5 U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5 U	5.5	14		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6 U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6 U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6 U	1.6	3.8		1
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,300	5.47	21.8		1
07914	Boron	7440-42-8	4.70 J	0.968	5.44		1
01650	Calcium	7440-70-2	3,010	6.67	21.8		1
01654	Iron	7439-89-6	17,700	5.12	21.8		1

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Sample Description: SL-014-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-9.0-10.0

LLI Sample # SW 6158231
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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01491 SDG#: DE030-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	20.4	0.24	2.2		1
01657	Magnesium	7439-95-4	3,600	2.76	10.9		1
06958	Manganese	7439-96-5	304	0.0849	0.544		1
10145	Phosphorus	7723-14-0	275	0.609	10.9		1
01662	Potassium	7440-09-7	2,510	19.6	54.4		1
01667	Sodium	7440-23-5	132	40.6	109		1
07968	Strontium	7440-24-6	16.4	0.0675	0.544		1
06969	Tin	7440-31-5	2.45 J	1.09	10.9		1
06970	Titanium	7440-32-6	1,070	0.827	2.18		2
10146	Zirconium	7440-67-7	0.969 J	0.914	5.44		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0894 J	0.0634	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	5.14	0.0634	0.423		2
06126	Barium	7440-39-3	104	0.114	0.423		2
06127	Beryllium	7440-41-7	0.676	0.0169	0.106		2
06128	Cadmium	7440-43-9	0.258	0.0380	0.106		2
06131	Chromium	7440-47-3	23.0	0.127	0.423		2
06132	Cobalt	7440-48-4	6.44	0.0211	0.106		2
06133	Copper	7440-50-8	10.8	0.0697	0.423		2
06135	Lead	7439-92-1	8.17	0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.436	0.0528	0.106		2
06139	Nickel	7440-02-0	12.7	0.106	0.423		2
06141	Selenium	7782-49-2	0.125 J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0402 J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.348	0.0317	0.106		2
06148	Vanadium	7440-62-2	44.8	0.0232	0.106		2
06149	Zinc	7440-66-6	62.0	0.592	3.17		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0042 J	0.0030	0.106		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0 J	0.88	1.6		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1

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SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-9.0-10.0

LLI Sample # SW 6158231
LLI Group # 1224331
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Project Name: SSFL Area IV Collocated Soil Sampling

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01491 SDG#: DE030-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	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	Std. Units	
00394	22a pH by 9045C	n.a.	8.26	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	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-014-SA5C-SB-9.5.

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	B103431AA	12/09/2010 18:25	Chelsea B Eastep	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103432AA	12/09/2010 16:36	Jason M Long	22.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:22	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034223213	12/08/2010 18:22	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034223213	12/08/2010 18:12	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10345SLJ026	12/24/2010 15:40	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10344SLA026	12/14/2010 13:40	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10344SLB026	12/12/2010 06:44	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10345SLJ026	12/13/2010 08:15	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10344SLB026	12/11/2010 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10344SLA026	12/10/2010 16:05	JoElla L Rice	1

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

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

Sample Description: SL-014-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-9.0-10.0

LLI Sample # SW 6158231
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:35 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01491 SDG#: DE030-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10343A34A	12/10/2010 10:51	Marie D John	22.6
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034223213	12/08/2010 18:11	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103420004A	12/14/2010 20:57	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/15/2010 23:35	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103440016A	12/15/2010 03:19	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103440016A	12/11/2010 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103420004A	12/09/2010 13:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 05:17	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103430001A	12/09/2010 15:56	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103430002A	12/10/2010 02:30	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103440015A	12/14/2010 05:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103440015A	12/11/2010 11:00	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103430002A	12/09/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103430001A	12/09/2010 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103435708002	12/13/2010 12:07	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103435708002	12/13/2010 12:07	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103435708002	12/14/2010 11:34	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103435708002	12/12/2010 16:34	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103431026001D	12/13/2010 12:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2

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

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

Sample Description: SL-014-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5C-SB-9.0-10.0

LLI Sample # SW 6158231
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 15:35 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

01491 SDG#: DE030-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103431026001C	12/13/2010 12:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103431026001B	12/13/2010 12:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103431026001A	12/13/2010 12:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103435711002	12/10/2010 19:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103435708002	12/09/2010 12:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103431026001	12/09/2010 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103435711002	12/09/2010 13:39	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201A	12/17/2010 15:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10350350201A	12/17/2010 15:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201B	12/19/2010 02:37	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243201A	12/27/2010 12:22	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201B	12/19/2010 16:00	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201A	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201B	12/17/2010 14:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201B	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10342182103B	12/08/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10342039403A	12/08/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243201A	12/21/2010 12:35	Kenneth A Bell	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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

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

Sample Description: TB-120710 Water
SSFL Area IV Collocated Soil Sampling
TB-120710

LLI Sample # WW 6158232
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 16:30

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

TB127 SDG#: DE030-09TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	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

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

Sample Description: TB-120710 Water
SSFL Area IV Collocated Soil Sampling
TB-120710

LLI Sample # WW 6158232
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 16:30

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

TB127 SDG#: DE030-09TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	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	ug/l	
00527	1,4-Dioxane	123-91-1	0.5 U	0.5	2.0		1
GC	Volatiles	TPH GRO SW-8015B	ug/l	ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20 U	20	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
10904	1b Volatile Organics	SW-846 8260B	1	Y103462AA	12/13/2010 16:06	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103431AA	12/09/2010 07:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103431AA	12/09/2010 07:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103462AA	12/13/2010 16:06	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10344A94A	12/10/2010 16:47	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10344A94A	12/10/2010 16:47	Katrina T Longenecker	1

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

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

Sample Description: EB13-SA5C-120710 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5C-120710

LLI Sample # WW 6158233
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:00 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

EB-13 SDG#: DE030-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	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

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

Sample Description: EB13-SA5C-120710 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5C-120710

LLI Sample # WW 6158233
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:00 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

EB-13 SDG#: DE030-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l		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	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS	Semivolatiles	SW-846 8270C	ug/l		ug/l	ug/l	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

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

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

Sample Description: EB13-SA5C-120710 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5C-120710

LLI Sample # WW 6158233
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:00 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

EB-13 SDG#: DE030-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.								
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	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
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
The recoveries of aniline and 4-chloroaniline were below QC limits in the LCSD. The recovery of 2,4-dinitrophenol was below QC limits in the LCS. Benzoic acid was not recovered in the LCS but was recovered in the LCSD. These compounds were not detected in the analysis of this sample. Sufficient sample was unavailable to repeat the analysis.								
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.052	U	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.61	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.14	J	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.33	J	0.052	1.0		1

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

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

Sample Description: EB13-SA5C-120710 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5C-120710

LLI Sample # WW 6158233
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:00 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

EB-13 SDG#: DE030-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	ug/l	
10137	Fluoranthene	206-44-0	0.010 U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010 U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010 U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.010 U	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.010 U	0.010	0.052		1
10137	Naphthalene	91-20-3	0.033 J	0.010	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.024 J	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.071 J	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010 U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010 U	0.010	0.052		1

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

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

bis(2-ethylhexyl)phthalate .16 ug/l

di-n-octylphthalate .052 ug/l

These blank values were not subtracted from the analytical results.

GC Volatiles	TPH GRO SW-8015B	ug/l	ug/l	ug/l	ug/l
08229	TPH-GRO S.CA water C5-C12	n.a.	20 U 20	50	1

Pesticides/PCBs	SW-846 8082	ug/l	ug/l	ug/l	ug/l
10227	Aroclor 5432	63496-31-1	0.10 U 0.10	0.52	1
10227	Aroclor 5442	12642-23-8	0.10 U 0.10	0.52	1
10227	Aroclor 5460	11126-42-4	0.10 U 0.10	0.52	1
10227	PCB-1016	12674-11-2	0.10 U 0.10	0.52	1
10227	PCB-1221	11104-28-2	0.10 U 0.10	0.52	1
10227	PCB-1232	11141-16-5	0.21 U 0.21	0.52	1
10227	PCB-1242	53469-21-9	0.10 U 0.10	0.52	1
10227	PCB-1248	12672-29-6	0.10 U 0.10	0.52	1
10227	PCB-1254	11097-69-1	0.10 U 0.10	0.52	1
10227	PCB-1260	11096-82-5	0.10 U 0.10	0.52	1
10227	PCB-1262	37324-23-5	0.21 U 0.21	0.52	1
10227	PCB-1268	11100-14-4	0.17 U 0.17	0.52	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	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

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

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

Sample Description: EB13-SA5C-120710 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5C-120710

LLI Sample # WW 6158233
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:00 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

EB-13 SDG#: DE030-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
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	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	mg/l	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	mg/l	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
		EPA 314.0	ug/l	ug/l	ug/l	ug/l	
06019	7b Perchlorate EPA 314.0	14797-73-0	1.6 J	0.70	2.0		1
		SW-846 7199	ug/l	ug/l	ug/l	ug/l	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
		EPA 150.1	Std. Units	Std. Units	Std. Units	Std. Units	
00200	22b pH by 9040B	n.a.	5.5	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.

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

Sample Description: EB13-SA5C-120710 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5C-120710

LLI Sample # WW 6158233
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:00 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

EB-13 SDG#: DE030-10EB*

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	Y103462AA	12/13/2010 16:27	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103431AA	12/09/2010 08:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103431AA	12/09/2010 08:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103462AA	12/13/2010 16:27	Nicholas R Rossi	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10345WAC026	12/14/2010 01:55	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10342WAE026	12/09/2010 11:51	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	10345WAC026	12/13/2010 05:20	Roman Kuropatkin	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10342WAE026	12/08/2010 21:25	Karen L Beyer	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10347A20A	12/13/2010 18:07	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10347A20A	12/13/2010 18:07	Martha L Seidel	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103450010A	12/14/2010 17:25	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103450010A	12/13/2010 03:45	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	103441848006	12/13/2010 03:34	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	103441848006	12/12/2010 23:14	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103446050004D	12/13/2010 09:25	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103446050004C	12/13/2010 09:25	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103446050004B	12/13/2010 09:25	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103446050004A	12/13/2010 09:25	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103475713002	12/14/2010 09:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103441848006	12/12/2010 11:54	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103446050004	12/12/2010 12:42	James L Mertz	1

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

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

Sample Description: EB13-SA5C-120710 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5C-120710

LLI Sample # WW 6158233
LLI Group # 1224331
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/07/2010 13:00 by PH

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

Submitted: 12/08/2010 09:30

Reported: 01/05/2011 10:36

EB-13 SDG#: DE030-10EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	103475713002	12/13/2010 15:25	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10350196902A	12/17/2010 07:14	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10352658701A	12/18/2010 14:47	Venia B McFadden	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10342196301A	12/08/2010 11:49	Ashley M Adams	1
00200	22b pH by 9040B	EPA 150.1	1	10342020001A	12/08/2010 18:50	Luz M Groff	1

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

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: B103431AA Sample number(s): 6158224-6158231									
Acetone	6.7 U	6.7	8.0	ug/kg	107	103	32-209	4	30
Benzene	0.10 U	0.10	4.0	ug/kg	99	100	80-120	1	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	90	91	79-120	2	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	99	98	79-124	1	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	96	95	78-120	1	30
Bromoform	0.40 U	0.40	4.0	ug/kg	98	95	70-120	3	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	78	82	32-162	5	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	102	102	46-153	0	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	93	94	72-120	1	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	93	94	75-120	1	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	89	90	75-120	2	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	101	101	69-122	1	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	95	95	80-120	0	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	79	83	37-154	5	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	101	104	43-146	2	30
Chloroform	0.12 U	0.12	4.0	ug/kg	100	100	80-120	0	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	88	91	54-132	4	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	90	92	78-120	2	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	91	93	79-120	2	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	134*	122	22-131	9	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	96	94	58-120	2	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	96	96	77-120	1	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	97	96	80-120	0	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	103	100	80-120	2	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	94	93	79-120	1	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	91	91	78-120	1	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	91	92	79-120	1	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	80	80	20-120	0	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	98	100	80-120	1	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	102	101	71-129	1	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	98	98	73-123	0	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	99	99	80-120	0	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	98	98	79-120	0	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	97	97	80-120	0	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	96	96	80-120	0	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	98	99	72-123	1	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	97	99	77-120	1	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	91	92	80-120	1	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	90	91	77-120	1	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	95	96	80-120	1	30
Freon 113	0.11 U	0.11	4.0	ug/kg	99	99	61-126	0	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	97	91	78-120	7	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	89	89	57-120	0	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	72	71	45-155	1	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	95	96	76-120	1	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	93	94	75-120	1	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.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

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	99	100	74-121	0	30
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	81	79	61-134	2	30
Methylene Chloride	0.59 J	0.24	4.0	ug/kg	95	97	76-124	2	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	94	96	77-120	2	30
Styrene	0.10 U	0.10	4.0	ug/kg	94	95	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	97	95	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	94	93	71-123	1	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	105	100	77-120	5	30
Toluene	0.12 J	0.08	4.0	ug/kg	95	96	80-120	1	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	91	93	64-120	2	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	91	91	68-120	0	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	100	101	71-125	1	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	95	95	80-120	0	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	97	98	80-120	1	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	89	89	58-133	1	30
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	97	96	71-123	1	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	92	94	79-120	1	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	93	94	78-120	1	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	84	87	53-120	3	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	96	96	80-120	0	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	92	93	80-120	1	30
Batch number: E103431AA Sample number(s): 6158232-6158233									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	97	106	60-132	8	30
Batch number: E103432AA Sample number(s): 6158224-6158231									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	112	107	70-130	4	30
Batch number: Y103462AA Sample number(s): 6158232-6158233									
Acetone	6 U	6.	20	ug/l	122	123	49-234	1	30
Benzene	0.5 U	0.5	5	ug/l	96	95	79-120	1	30
Bromobenzene	1 U	1.	5	ug/l	104	104	80-120	0	30
Bromochloromethane	1 U	1.	5	ug/l	98	95	80-120	3	30
Bromodichloromethane	1 U	1.	5	ug/l	91	92	80-120	1	30
Bromoform	1 U	1.	5	ug/l	96	98	61-120	2	30
Bromomethane	1 U	1.	5	ug/l	89	88	44-120	0	30
2-Butanone	3 U	3.	10	ug/l	95	96	66-151	1	30
n-Butylbenzene	1 U	1.	5	ug/l	100	99	74-120	2	30
sec-Butylbenzene	1 U	1.	5	ug/l	105	104	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	98	98	80-120	0	30
Carbon Tetrachloride	1 U	1.	5	ug/l	98	98	75-123	0	30
Chlorobenzene	0.8 U	0.8	5	ug/l	97	97	80-120	1	30
Chloroethane	1 U	1.	5	ug/l	93	88	49-129	5	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	104	104	56-129	0	30
Chloroform	0.8 U	0.8	5	ug/l	98	97	77-122	1	30
Chloromethane	1 U	1.	5	ug/l	86	85	60-129	2	30
2-Chlorotoluene	1 U	1.	5	ug/l	104	104	80-120	0	30
4-Chlorotoluene	1 U	1.	5	ug/l	99	100	80-120	1	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	93	97	38-136	3	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	112	112	66-120	0	30
Dibromochloromethane	1 U	1.	5	ug/l	98	98	80-120	0	30
1,2-Dibromoethane	1 U	1.	5	ug/l	100	102	80-120	2	30
Dibromomethane	1 U	1.	5	ug/l	95	96	80-120	0	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	98	80-120	1	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	102	101	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	99	99	80-120	0	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	70	68	47-120	2	30
1,1-Dichloroethane	1 U	1.	5	ug/l	98	97	79-120	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.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1 U	1.	5	ug/l	95	95	70-130	0	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	100	97	74-123	3	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	96	80-120	3	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	101	99	80-120	2	30
1,2-Dichloropropane	1 U	1.	5	ug/l	92	91	78-120	1	30
1,3-Dichloropropane	1 U	1.	5	ug/l	98	98	80-120	0	30
2,2-Dichloropropane	1 U	1.	5	ug/l	91	90	77-124	1	30
1,1-Dichloropropene	1 U	1.	5	ug/l	97	95	80-120	2	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	89	89	80-120	0	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	93	94	79-120	0	30
Ethylbenzene	0.8 U	0.8	5	ug/l	98	98	79-120	1	30
Freon 113	2 U	2.	10	ug/l	99	95	69-128	4	30
Freon 133a	2 U	2.	5	ug/l	98	102	77-120	5	30
Hexachlorobutadiene	2 U	2.	5	ug/l	91	92	58-120	1	30
2-Hexanone	3 U	3.	10	ug/l	104	106	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	97	97	77-120	0	30
p-Isopropyltoluene	1 U	1.	5	ug/l	103	103	80-120	1	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	95	96	76-120	2	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	97	96	70-121	1	30
Methylene Chloride	2 U	2.	5	ug/l	99	99	80-120	0	30
n-Propylbenzene	1 U	1.	5	ug/l	109	108	80-120	1	30
Styrene	1 U	1.	5	ug/l	96	97	80-120	0	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	101	102	80-120	1	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	108	107	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	98	100	80-121	2	30
Toluene	0.7 U	0.7	5	ug/l	98	99	79-120	1	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	97	99	65-120	2	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	97	98	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	86	86	75-127	0	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	99	100	80-120	1	30
Trichloroethene	1 U	1.	5	ug/l	92	93	80-120	1	30
Trichlorofluoromethane	2 U	2.	5	ug/l	83	80	64-129	3	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	107	111	80-120	3	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	106	106	74-120	0	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	103	103	75-120	0	30
Vinyl Chloride	1 U	1.	5	ug/l	83	82	65-125	1	30
m+p-Xylene	0.8 U	0.8	5	ug/l	95	94	80-120	1	30
o-Xylene	0.8 U	0.8	5	ug/l	95	96	80-120	1	30

Batch number: 10342WAE026

Sample number(s): 6158233

Acenaphthene	0.010 U	0.010	0.050	ug/l	96	91	74-109	5	30
Acenaphthylene	0.010 U	0.010	0.050	ug/l	98	93	70-110	5	30
Anthracene	0.010 U	0.010	0.050	ug/l	96	92	66-111	5	30
Benzo(a)anthracene	0.010 U	0.010	0.050	ug/l	97	91	72-114	6	30
Benzo(a)pyrene	0.010 U	0.010	0.050	ug/l	91	86	64-115	5	30
Benzo(b)fluoranthene	0.010 U	0.010	0.050	ug/l	93	99	69-123	6	30
Benzo(g,h,i)perylene	0.010 U	0.010	0.050	ug/l	86	83	68-125	4	30
Benzo(k)fluoranthene	0.010 U	0.010	0.050	ug/l	96	83	72-122	15	30
Butylbenzylphthalate	0.050 U	0.050	1.0	ug/l	80	80	70-130	0	30
Di-n-butylphthalate	0.050 U	0.050	1.0	ug/l	108	105	70-130	2	30
Chrysene	0.010 U	0.010	0.050	ug/l	95	89	76-116	6	30
Dibenz(a,h)anthracene	0.010 U	0.010	0.050	ug/l	91	87	71-125	4	30
Diethylphthalate	0.050 U	0.050	1.0	ug/l	90	87	70-130	4	30
Dimethylphthalate	0.050 U	0.050	1.0	ug/l	68*	71	70-130	4	30
Bis(2-Ethylhexyl)phthalate	0.16 J	0.050	1.0	ug/l	118	110	70-130	7	30
Fluoranthene	0.010 U	0.010	0.050	ug/l	96	92	75-116	4	30
Fluorene	0.010 U	0.010	0.050	ug/l	102	96	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010 U	0.010	0.050	ug/l	88	85	69-124	4	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCS D Limits	RPD	RPD Max
1-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	94	88	71-117	6	30
2-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	85	80	75-115	6	30
Naphthalene	0.010 U	0.010	0.050	ug/l	89	84	72-109	6	30
N-Nitrosodimethylamine	0.010 U	0.010	0.050	ug/l	63*	58*	70-130	8	30
Di-n-octylphthalate	0.052 J	0.050	1.0	ug/l	113	110	70-130	3	30
Phenanthrene	0.010 U	0.010	0.050	ug/l	91	89	76-111	3	30
Pyrene	0.010 U	0.010	0.050	ug/l	86	80	69-118	7	30
Batch number: 10344SLA026 Sample number(s): 6158224-6158231									
Aniline	170 U	170.	500	ug/kg	59		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	36		15-121		
Benzoic acid	170 U	170.	500	ug/kg	88		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	97		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	99		79-117		
Carbazole	17 U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	19		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	74		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	100		79-110		
Dibenzofuran	17 U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	62		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	106		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	68		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	102		77-111		
Hexachlorobenzene	17 U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	83		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	81		68-105		
Isophorone	17 U	17.	170	ug/kg	91		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	92		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	95		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	66		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	88		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	89		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	90		63-107		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	102		67-141		
Pentachlorophenol	170 U	170.	500	ug/kg	74		35-106		
Phenol	17 U	17.	170	ug/kg	93		58-112		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	92		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	102		78-111		
Batch number: 10344SLB026 Sample number(s): 6158224-6158231									
Acenaphthene	0.67 U	0.67	1.7	ug/kg	92		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	94		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	97		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	92		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	99		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	105		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	92		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	93		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	92		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	101		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	113		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	98		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	91		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	93		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	90		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	94		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	118		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	89		56-121		
Batch number: 10345SLJ026 Sample number(s): 6158224-6158231									
N-Nitrosodimethylamine	16.7 U	16.7	33.3	ng/kg	91		70-130		
Batch number: 10345WAC026 Sample number(s): 6158233									
Aniline	1 U	1.	5	ug/l	54	43*	49-101	24	30
Benzidine	20 U	20.	60	ug/l	61	51	20-109	17	30
Benzoic acid	6 U	6.	15	ug/l	0*	44	10-69	200*	30
Benzyl alcohol	5 U	5.	15	ug/l	76	72	66-97	6	30
4-Bromophenyl-phenylether	1 U	1.	5	ug/l	82	84	82-117	2	30
Carbazole	1 U	1.	5	ug/l	87	86	81-114	1	30
4-Chloro-3-methylphenol	1 U	1.	5	ug/l	86	86	70-123	0	30
4-Chloroaniline	1 U	1.	5	ug/l	58	39*	42-124	39*	30
bis(2-Chloroethoxy)methane	1 U	1.	5	ug/l	83	82	74-124	1	30
bis(2-Chloroethyl)ether	1 U	1.	5	ug/l	84	83	77-108	1	30
bis(2-Chloroisopropyl)ether	1 U	1.	5	ug/l	73	73	62-127	0	30
2-Chloronaphthalene	2 U	2.	5	ug/l	90	93	54-132	3	30
2-Chlorophenol	1 U	1.	5	ug/l	85	83	77-108	1	30
4-Chlorophenyl-phenylether	2 U	2.	5	ug/l	92	92	82-111	0	30
Dibenzofuran	1 U	1.	5	ug/l	90	89	83-108	0	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	83	82	67-108	0	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	82	82	63-110	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	82	83	65-113	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2 U	2.	5	ug/l	49	54	49-111	9	30
2,4-Dichlorophenol	1 U	1.	5	ug/l	88	87	80-109	1	30
2,4-Dimethylphenol	3 U	3.	10	ug/l	81	84	72-110	4	30
3,5-Dimethylphenol	3 U	3.	10	ug/l	113	115	70-130	2	30
4,6-Dinitro-2-methylphenol	5 U	5.	15	ug/l	82	87	78-119	5	30
2,4-Dinitrophenol	10 U	10.	30	ug/l	57*	87	64-120	41*	30
2,4-Dinitrotoluene	1 U	1.	5	ug/l	92	90	81-115	2	30
2,6-Dinitrotoluene	1 U	1.	5	ug/l	90	90	85-115	1	30
1,2-Diphenylhydrazine	1 U	1.	5	ug/l	79	82	78-116	4	30
Hexachlorobenzene	1 U	1.	5	ug/l	87	87	81-118	0	30
Hexachlorobutadiene	1 U	1.	5	ug/l	80	83	57-124	4	30
Hexachlorocyclopentadiene	5 U	5.	15	ug/l	62	60	10-118	2	30
Hexachloroethane	1 U	1.	5	ug/l	78	77	52-113	1	30
Isophorone	1 U	1.	5	ug/l	81	80	74-117	1	30
2-Methylphenol	1 U	1.	5	ug/l	78	77	64-101	1	30
4-Methylphenol	2 U	2.	5	ug/l	75	68	61-103	10	30
2-Nitroaniline	1 U	1.	5	ug/l	88	88	83-116	0	30
3-Nitroaniline	1 U	1.	5	ug/l	89	83	74-113	7	30
4-Nitroaniline	1 U	1.	5	ug/l	71	65	59-100	9	30
Nitrobenzene	1 U	1.	5	ug/l	80	81	75-109	2	30
2-Nitrophenol	1 U	1.	5	ug/l	89	89	86-120	0	30
4-Nitrophenol	10 U	10.	30	ug/l	46	38	16-78	18	30
N-Nitroso-di-n-propylamine	1 U	1.	5	ug/l	76	75	69-110	2	30
N-Nitrosodiphenylamine	2 U	2.	5	ug/l	86	87	67-136	1	30
Pentachlorophenol	3 U	3.	15	ug/l	84	82	53-110	3	30
Phenol	1 U	1.	5	ug/l	42	37	29-67	14	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	84	88	71-112	5	30
2,4,5-Trichlorophenol	1 U	1.	5	ug/l	90	90	79-107	0	30
2,4,6-Trichlorophenol	1 U	1.	5	ug/l	89	92	81-113	3	30

Batch number: 10343A34A	Sample number(s): 6158224-6158231								
9a TPH by EPA 8015B Gas	0.2 U 0.2	1.0	mg/kg	78	75	67-119	4	30	
Batch number: 10344A94A	Sample number(s): 6158232								
TPH-GRO S.CA water C5-C12	20 U 20.	50	ug/l	109	109	75-135	0	30	
Batch number: 10347A20A	Sample number(s): 6158233								
TPH-GRO S.CA water C5-C12	20 U 20.	50	ug/l	100	109	75-135	9	30	
Batch number: 103420004A	Sample number(s): 6158224-6158231								
4-Amino-2,6-Dinitrotoluene	75 U 75.	150	ug/kg	105		80-120			
2-Amino-4,6-Dinitrotoluene	50 U 50.	150	ug/kg	107		80-120			
2,6-Diamino-4-nitrotoluene	100 U 100.	300	ug/kg	76	85	54-134	12	30	
2,4-Diamino-6-nitrotoluene	100 U 100.	300	ug/kg	76	85	54-134	12	30	
1,3-Dinitrobenzene	50 U 50.	150	ug/kg	106		51-171			
2,4-Dinitrotoluene	50 U 50.	150	ug/kg	104		72-135			
2,6-Dinitrotoluene	50 U 50.	150	ug/kg	108		80-120			
HMX	130 U 130.	380	ug/kg	96		74-130			
Nitrobenzene	50 U 50.	150	ug/kg	107		80-120			
Nitroglycerin	1,000 U 1,000.	3,000	ug/kg	92		80-120			
2-Nitrotoluene	100 U 100.	150	ug/kg	108		78-128			
3-Nitrotoluene	130 U 130.	150	ug/kg	109		73-127			

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	100 U	100.	150	ug/kg	106		80-120		
PETN	1,000 U	1,000.	3,000	ug/kg	104		80-120		
RDX	63 U	63.	150	ug/kg	104		75-131		
Tetryl	77 U	77.	150	ug/kg	109		70-168		
1,3,5-Trinitrobenzene	50 U	50.	150	ug/kg	116		77-137		
2,4,6-Trinitrotoluene	50 U	50.	150	ug/kg	107		80-120		
Batch number: 103430011A	Sample number(s): 6158224-6158230								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	105		80-126		
Batch number: 103480007A	Sample number(s): 6158231								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	99		80-126		
Batch number: 103440016A	Sample number(s): 6158224-6158231								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	69*	66*	75-125	4	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	99		72-120		
PCB-1221	0.50 U	0.50	1.7	ug/kg					
PCB-1232	0.52 U	0.52	1.7	ug/kg					
PCB-1242	0.50 U	0.50	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.33 U	0.33	1.7	ug/kg	115		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					
Batch number: 103450010A	Sample number(s): 6158233								
Aroclor 5432	0.10 U	0.10	0.50	ug/l					
Aroclor 5442	0.10 U	0.10	0.50	ug/l	68*	58*	75-125	16	30
Aroclor 5460	0.10 U	0.10	0.50	ug/l					
PCB-1016	0.10 U	0.10	0.50	ug/l	108	98	68-119	10	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	118	94	68-121	23	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: 103470024A	Sample number(s): 6158224-6158231								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	92		66-113		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	92		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	89		66-113		
Batch number: 103430001A	Sample number(s): 6158224-6158231								
Ethanol	100 U	100.	500	ug/kg	95		75-112		
Isopropanol	100 U	100.	500	ug/kg	95		75-125		
Methanol	100	100.	500	ug/kg	102		75-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

<u>Analysis Name</u>	<u>Blank Result</u> U	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 103430002A	Sample number(s): 6158224-6158231								
Diethylene glycol	5.0 U	5.0	13	mg/kg	121		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	100		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	122		75-125		
Batch number: 103440015A	Sample number(s): 6158224-6158231								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	102		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	100		75-125		
Batch number: 103431026001A	Sample number(s): 6158224-6158231								
Antimony	0.0600 U	0.0600	0.200	mg/kg	62		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	94		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	97		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	104		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.284 J	0.0660	0.400	mg/kg	101		80-120		
Lead	0.0130 J	0.0104	0.200	mg/kg	99		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	97		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	100		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	91		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	93		78-122		
Batch number: 103431026001B	Sample number(s): 6158224-6158231								
Selenium	0.0400 U	0.0400	0.400	mg/kg	102		79-122		
Batch number: 103431026001C	Sample number(s): 6158224-6158231								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	97		78-122		
Batch number: 103431026001D	Sample number(s): 6158224-6158231								
Barium	0.108 U	0.108	0.400	mg/kg	98		79-121		
Batch number: 103435708002	Sample number(s): 6158224-6158231								
Aluminum	6.22 J	4.93	19.6	mg/kg	98		61-110		
Boron	0.873 U	0.873	4.90	mg/kg	93		78-110		
Calcium	7.06 J	6.01	19.6	mg/kg	98		88-110		
Iron	4.62 U	4.62	19.6	mg/kg	91		61-110		
Lithium	0.50 J	0.22	2.0	mg/kg	104		80-120		
Magnesium	2.49 U	2.49	9.80	mg/kg	98		82-110		
Manganese	0.0765 U	0.0765	0.490	mg/kg	98		81-119		
Phosphorus	0.819 J	0.549	9.80	mg/kg	102		80-120		
Potassium	17.6 U	17.6	49.0	mg/kg	98		78-110		
Sodium	36.6 U	36.6	98.0	mg/kg	94		87-110		
Strontium	0.0608 U	0.0608	0.490	mg/kg	104		79-121		
Tin	1.73 J	0.980	9.80	mg/kg	105		90-114		
Titanium	0.373 U	0.373	0.980	mg/kg	90		80-120		
Zirconium	0.824 U	0.824	4.90	mg/kg	106		80-120		
Batch number: 103435711002	Sample number(s): 6158224-6158231								
Mercury	0.0028 U	0.0028	0.0959	mg/kg	98		88-123		
Batch number: 103441848006	Sample number(s): 6158233								
Aluminum	0.0834 U	0.0834	0.200	mg/l	94	94	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	95	96	90-110	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	0.0702 U	0.0702	0.200	mg/l	98	97	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	95	95	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	97	97	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	99	99	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	97	97	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	98	98	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	96	95	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	101	101	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	96	97	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	96	96	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	98	98	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	98	98	80-120	1	20

Batch number: 103446050004A

Sample number(s): 6158233

Antimony	0.00030 U	0.00030	0.0010	mg/l	98	103	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	93	98	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	100	102	90-112	2	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	97	97	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	100	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	99	97	80-120	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	100	90-113	3	20
Lead	0.00052 U	0.0005	0.0010	mg/l	97	100	90-115	3	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	104	103	90-113	2	20
Silver	0.00080 U	0.0008	0.00050	mg/l	97	99	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	98	100	89-116	2	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	102	100	80-120	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	97	103	80-120	7	20

Batch number: 103446050004B

Sample number(s): 6158233

Selenium	0.00025 U	0.00025	0.0020	mg/l	100	99	85-114	1	20

Batch number: 103446050004C

Sample number(s): 6158233

Molybdenum	0.00025 U	0.00025	0.00050	mg/l	97	101	80-120	4	20

Batch number: 103446050004D

Sample number(s): 6158233

Barium	0.00038 U	0.00038	0.0020	mg/l	95	100	88-113	5	20

Batch number: 103475713002

Sample number(s): 6158233

Mercury	0.000050 U	0.00005	0.00020	mg/l	103	103	80-120	0	20

Batch number: 10342196301A

Sample number(s): 6158233

3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	104		90-110		

Batch number: 10348348201B

Sample number(s): 6158224-6158228

11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		

Batch number: 10350196902A

Sample number(s): 6158233

11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	100	90-110	0	20

Batch number: 10350350201A

Sample number(s): 6158229-6158231

11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	105		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	102		90-110		

Batch number: 10351102201A

Sample number(s): 6158224-6158228

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	103		80-120		
Batch number: 10351102201B	Sample number(s): 6158229-6158231								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	103		80-120		
Batch number: 10351351201A	Sample number(s): 6158224-6158225								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		
Batch number: 10351351201B	Sample number(s): 6158226-6158231								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		
Batch number: 10352658701A	Sample number(s): 6158233								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	91	84-115	1	20
Batch number: 10355243201A	Sample number(s): 6158224-6158231								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	87		80-120		
Batch number: 10342020001A	Sample number(s): 6158233								
22b pH by 9040B					100		99-101		
Batch number: 10342039403A	Sample number(s): 6158224-6158231								
22a pH by 9045C					100		95-105		
Batch number: 10342182103A	Sample number(s): 6158224-6158229								
Oxidation Reduction Potential					99		98-102		
Batch number: 10342182103B	Sample number(s): 6158230-6158231								
Oxidation Reduction Potential					99		98-102		
Batch number: 10354162401B	Sample number(s): 6158224-6158231								
28a Total Solids 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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103431AA	Sample number(s): 6158224-6158231 UNSPK: 6158224								
Acetone	83		15-210						
Benzene	111		55-143						
Bromobenzene	101		43-139						
Bromochloromethane	108		60-137						
Bromodichloromethane	104		53-136						
Bromoform	94		38-124						
Bromomethane	86		42-168						
2-Butanone	84		37-163						
n-Butylbenzene	106		30-146						
sec-Butylbenzene	108		33-157						
tert-Butylbenzene	104		41-152						
Carbon Tetrachloride	113		45-153						
Chlorobenzene	104		49-135						
Chloroethane	89		39-152						

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2-Chloroethyl Vinyl Ether	95		32-139						
Chloroform	110		61-142						
Chloromethane	100		51-163						
2-Chlorotoluene	104		42-146						
4-Chlorotoluene	104		39-145						
1,2-Dibromo-3-chloropropane	82		30-139						
Dibromochloromethane	99		51-128						
1,2-Dibromoethane	97		54-129						
Dibromomethane	104		57-130						
1,2-Dichlorobenzene	101		36-133						
1,3-Dichlorobenzene	100		34-134						
1,4-Dichlorobenzene	100		35-136						
Dichlorodifluoromethane	91		26-151						
1,1-Dichloroethane	110		63-142						
1,2-Dichloroethane	108		68-131						
1,1-Dichloroethene	112		61-149						
cis-1,2-Dichloroethene	110		60-136						
trans-1,2-Dichloroethene	112		59-142						
1,2-Dichloropropane	107		62-135						
1,3-Dichloropropane	100		58-129						
2,2-Dichloropropane	109		53-147						
1,1-Dichloropropene	111		54-145						
cis-1,3-Dichloropropene	99		51-131						
trans-1,3-Dichloropropene	97		49-129						
Ethylbenzene	107		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	99		10-155						
2-Hexanone	60		32-160						
Isopropylbenzene	107		38-144						
p-Isopropyltoluene	107		29-152						
Methyl Tertiary Butyl Ether	96		55-129						
4-Methyl-2-pentanone	67		46-139						
Methylene Chloride	101		61-141						
n-Propylbenzene	109		39-157						
Styrene	105		35-134						
1,1,1,2-Tetrachloroethane	105		52-130						
1,1,1,2-Tetrachloroethane	90		40-152						
Tetrachloroethene	108		42-149						
Toluene	108		50-146						
1,2,3-Trichlorobenzene	90		10-140						
1,2,4-Trichlorobenzene	92		10-136						
1,1,1-Trichloroethane	111		64-142						
1,1,2-Trichloroethane	98		54-139						
Trichloroethene	109		53-144						
Trichlorofluoromethane	101		47-163						
1,2,3-Trichloropropane	91		45-154						
1,2,4-Trimethylbenzene	106		37-149						
1,3,5-Trimethylbenzene	106		38-150						
Vinyl Chloride	97		50-154						
m+p-Xylene	108		44-137						
o-Xylene	104		42-137						

Batch number: E103432AA

Sample number(s): 6158224-6158231 UNSPK: P157195

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
1,4-Dioxane	87	91	70-130	14	30				
Batch number: 10344SLA026 Sample number(s): 6158224-6158231 UNSPK: P157195									
Aniline	53	64	14-114	20	30				
Benzidine	30*	38	35-141	23	30				
Benzoic acid	63	50	10-173	22	30				
Benzyl alcohol	96	104	55-123	8	30				
4-Bromophenyl-phenylether	98	104	67-129	6	30				
Carbazole	96	98	64-120	2	30				
4-Chloro-3-methylphenol	96	101	53-130	5	30				
4-Chloroaniline	52	59	23-95	13	30				
bis(2-Chloroethoxy)methane	96	102	54-117	6	30				
bis(2-Chloroethyl)ether	93	101	60-116	8	30				
bis(2-Chloroisopropyl)ether	91	96	55-142	6	30				
2-Chloronaphthalene	74	79	50-141	6	30				
2-Chlorophenol	96	103	73-121	7	30				
4-Chlorophenyl-phenylether	100	105	64-119	6	30				
Dibenzofuran	98	101	71-112	3	30				
1,2-Dichlorobenzene	86	94	66-108	8	30				
1,3-Dichlorobenzene	86	92	63-109	7	30				
1,4-Dichlorobenzene	87	94	53-113	7	30				
3,3'-Dichlorobenzidine	50	56	25-123	11	30				
2,4-Dichlorophenol	99	105	78-117	5	30				
2,4-Dimethylphenol	96	102	56-130	6	30				
3,5-Dimethylphenol	106	109	70-130	3	30				
4,6-Dinitro-2-methylphenol	63	63	10-148	1	30				
2,4-Dinitrophenol	30	31	20-143	3	30				
2,4-Dinitrotoluene	96	99	57-114	3	30				
2,6-Dinitrotoluene	99	103	69-123	4	30				
1,2-Diphenylhydrazine	102	106	71-129	4	30				
Hexachlorobenzene	95	100	61-111	5	30				
Hexachlorobutadiene	91	102	62-120	12	30				
Hexachlorocyclopentadiene	69	63	10-153	8	30				
Hexachloroethane	82	91	57-109	11	30				
Isophorone	95	98	51-118	3	30				
2-Methylphenol	98	103	47-142	5	30				
4-Methylphenol	99	106	55-126	6	30				
2-Nitroaniline	93	98	67-125	4	30				
3-Nitroaniline	91	94	59-122	3	30				
4-Nitroaniline	70	71	52-112	2	30				
Nitrobenzene	92	98	51-114	6	30				
2-Nitrophenol	92	95	74-115	3	30				
4-Nitrophenol	78	84	39-133	7	30				
N-Nitroso-di-n-propylamine	90	97	60-116	8	30				
N-Nitrosodiphenylamine	100	103	86-145	3	30				
Pentachlorophenol	62	69	17-149	11	30				
Phenol	94	101	58-126	7	30				
1,2,4-Trichlorobenzene	93	100	72-115	7	30				
2,4,5-Trichlorophenol	96	100	34-139	5	30				
2,4,6-Trichlorophenol	100	104	49-140	4	30				
Batch number: 10344SLB026 Sample number(s): 6158224-6158231 UNSPK: P157195									
Acenaphthene	88	94	63-105	7	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

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
Acenaphthylene	92	97	55-126	5	30				
Anthracene	92	100	46-136	8	30				
Benzo(a)anthracene	92	104	39-144	12	30				
Benzo(a)pyrene	83	97	34-156	15	30				
Benzo(b)fluoranthene	92	110	43-155	17	30				
Benzo(g,h,i)perylene	78	54	33-141	34*	30				
Benzo(k)fluoranthene	78	101	42-144	25	30				
Butylbenzylphthalate	114	124	73-140	9	30				
Di-n-butylphthalate	93	107	78-160	14	30				
Chrysene	88	100	29-156	12	30				
Dibenz(a,h)anthracene	84	72	41-130	15	30				
Diethylphthalate	98	105	87-131	7	30				
Dimethylphthalate	96	119*	74-118	21	30				
Bis(2-Ethylhexyl)phthalate	103	109	39-167	5	30				
Fluoranthene	88	106	26-166	17	30				
Fluorene	94	100	45-121	7	30				
Indeno(1,2,3-cd)pyrene	83	69	21-143	19	30				
1-Methylnaphthalene	90	95	72-123	6	30				
2-Methylnaphthalene	81	85	28-121	5	30				
Naphthalene	87	91	61-102	5	30				
N-Nitrosodimethylamine	90	96	48-113	6	30				
Di-n-octylphthalate	115	144	40-192	23	30				
Phenanthrene	89	98	12-165	10	30				
Pyrene	84	92	15-153	9	30				
Batch number: 10345SLJ026	Sample number(s): 6158224-6158231 UNSPK: 6158224								
N-Nitrosodimethylamine	84	81	70-130	3	30				
Batch number: 10343A34A	Sample number(s): 6158224-6158231 UNSPK: P157195								
9a TPH by EPA 8015B Gas	61	68	39-118	10	30				
Batch number: 10344A94A	Sample number(s): 6158232 UNSPK: P158326								
TPH-GRO S.CA water C5-C12	118		63-154						
Batch number: 10347A20A	Sample number(s): 6158233 UNSPK: P158342								
TPH-GRO S.CA water C5-C12	118		63-154						
Batch number: 103420004A	Sample number(s): 6158224-6158231 UNSPK: P156146								
4-Amino-2,6-Dinitrotoluene	107	108	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	107	106	80-137	0	50				
1,3-Dinitrobenzene	104	104	38-166	1	50				
2,4-Dinitrotoluene	102	102	80-131	0	50				
2,6-Dinitrotoluene	108	107	80-127	1	50				
HMX	101	95	63-128	6	50				
Nitrobenzene	104	103	80-125	1	50				
Nitroglycerin	94	94	80-120	0	50				
2-Nitrotoluene	105	106	80-122	1	50				
3-Nitrotoluene	106	106	72-119	1	50				
4-Nitrotoluene	105	106	80-125	1	50				
PETN	108	107	80-121	0	50				
RDX	98	95	75-129	2	50				
Tetryl	106	101	55-174	5	50				
1,3,5-Trinitrobenzene	112	109	82-126	2	50				

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Quality Control Summary

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Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

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
2,4,6-Trinitrotoluene	105	105	82-130	0	50				
Batch number: 103430011A	Sample number(s): 6158224-6158230 UNSPK: P157195								
17a Formaldehyde by 8315A	104	101	80-120	3	50				
Batch number: 103480007A	Sample number(s): 6158231 UNSPK: P162812								
17a Formaldehyde by 8315A	29*	26*	80-120	3	50				
Batch number: 103440016A	Sample number(s): 6158224-6158231 UNSPK: P157195								
PCB-1016	92	90	29-146	2	50				
PCB-1260	91	89	39-149	3	50				
Batch number: 103470024A	Sample number(s): 6158224-6158231 UNSPK: 6158224								
EFH (C12-C14)	83	92	49-123	10	20				
EFH (C15-C20)	106	113	49-123	7	20				
EFH (C21-C30)	97	99	49-123	2	20				
EFH (C30 - C40)	98	91	49-123	5	20				
EFH (C8-C11)	69	81	49-123	16	20				
Batch number: 103430001A	Sample number(s): 6158224-6158231 UNSPK: P157195								
Ethanol	80	80	24-143	1	20				
Isopropanol	84	83	75-125	1	20				
Methanol	90	91	45-136	2	20				
Batch number: 103430002A	Sample number(s): 6158224-6158231 UNSPK: P144600								
Diethylene glycol	110*	121*	59-109	10	20				
Ethylene glycol	104	109*	63-107	5	20				
Propylene glycol	126*	119*	63-107	6	20				
Batch number: 103440015A	Sample number(s): 6158224-6158231 UNSPK: P157195								
m-Terphenyl	80	101	75-125	23*	20				
o-Terphenyl	102	108	75-125	5	20				
p-Terphenyl	79	98	75-125	21*	20				
Batch number: 103431026001A	Sample number(s): 6158224-6158231 UNSPK: P157194 BKG: P157194								
Antimony	48*	41*	75-125	14	20	0.0648 J	0.0577 U	200* (1)	20
Arsenic	170*	139*	75-125	10	20	3.96	3.47	13	20
Beryllium	128*	109	75-125	12	20	0.513	0.461	11 (1)	20
Cadmium	121	124	75-125	1	20	0.0980 J	0.119	19 (1)	20
Chromium	145*	138*	75-125	3	20	17.1	15.7	8	20
Cobalt	114	105	75-125	9	20	4.41	4.87	10	20
Copper	126*	126*	75-125	1	20	7.01	6.70	5	20
Lead	195*	135*	75-125	18	20	5.26	4.45	17	20
Nickel	138*	120	75-125	9	20	9.15	8.81	4	20
Silver	120	116	75-125	6	20	0.0294 J	0.0247 J	17 (1)	20
Thallium	120	120	75-125	1	20	0.235	0.192	20 (1)	20
Vanadium	197*	169*	75-125	6	20	32.3	29.5	9	20
Zinc	142 (2)	60 (2)	75-125	13	20	52.5	39.8	27*	20
Batch number: 103431026001B	Sample number(s): 6158224-6158231 UNSPK: P157194 BKG: P157194								
Selenium	88	89	75-125	0	20	0.134 J	0.110 J	20 (1)	20
Batch number: 103431026001C	Sample number(s): 6158224-6158231 UNSPK: P157194 BKG: P157194								

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

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
Molybdenum	111	112	75-125	1	20	0.502	0.491	2	20
Batch number: 103431026001D	Sample number(s): 6158224-6158231 UNSPK: P157194 BKG: P157194								
Barium	292 (2)	577 (2)	75-125	22*	20	82.7	76.1	8	20
Batch number: 103435708002	Sample number(s): 6158224-6158231 UNSPK: 6158231 BKG: 6158231								
Aluminum	3178 (2)	2676 (2)	75-125	5	20	13,000	13,200	2	20
Boron	95	95	84-115	2	20	4.27 J	4.04 J	6 (1)	20
Calcium	395 (2)	382 (2)	75-125	0	20	2,740	3,270	18	20
Iron	3285 (2)	6801 (2)	75-125	17	20	16,100	18,400	13	20
Lithium	101	106	82-114	5	20	18.5	20.7	11	20
Magnesium	418 (2)	633 (2)	75-125	10	20	3,280	3,720	13	20
Manganese	-34 (2)	17 (2)	75-125	9	20	277	229	19	20
Phosphorus	124	220*	75-125	23*	20	250	303	19	20
Potassium	139*	197*	75-125	15	20	2,280	2,650	15	20
Sodium	97	100	75-125	4	20	120	127	6 (1)	20
Strontium	100	106	75-115	7	20	14.9	16.1	7	20
Tin	96	96	80-110	2	20	2.23 J	2.54 J	13 (1)	20
Titanium	255 (2)	435 (2)	75-125	14	20	971	1,060	8	20
Zirconium	101	101	75-125	2	20	0.882 J	1.36 J	42* (1)	20
Batch number: 103435711002	Sample number(s): 6158224-6158231 UNSPK: 6158225 BKG: 6158225								
Mercury	101	101	65-135	1	20	0.0047 J	0.0032 J	38* (1)	20
Batch number: 10342196301A	Sample number(s): 6158233 UNSPK: P158162 BKG: P158162								
3b Cr VI by EPA 7199	0*		59-135			5.0 U	5.0 U	0 (1)	20
Batch number: 10348348201B	Sample number(s): 6158224-6158228 UNSPK: P157195 BKG: P157195								
11a Anions by 300.0 - Fluoride	135*		80-120			0.80 U	4.1	200* (1)	20
11a Anions by 300.0 - Nitrate	40*		80-120			14.3	3.1	130* (1)	20
Batch number: 10350350201A	Sample number(s): 6158229-6158231 UNSPK: 6158229 BKG: 6158229								
11a Anions by 300.0 - Fluoride	91		80-120			3.5	3.6	2 (1)	20
11a Anions by 300.0 - Nitrate	107		80-120			1.2 J	1.1 J	7 (1)	20
Batch number: 10351102201A	Sample number(s): 6158224-6158228 UNSPK: P157195 BKG: P157195								
21a Cyanide by 9012B	108		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 10351102201B	Sample number(s): 6158229-6158231 UNSPK: 6158229 BKG: 6158229								
21a Cyanide by 9012B	116		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 10351351201A	Sample number(s): 6158224-6158225 UNSPK: P157195 BKG: P157195								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10351351201B	Sample number(s): 6158226-6158231 UNSPK: 6158226 BKG: 6158226								
7a Perchlorate EPA 314.0	105		80-120			15.6 J	9.0 U	200* (1)	15
Batch number: 10355243201A	Sample number(s): 6158224-6158231 UNSPK: P156146 BKG: P156146								
3a Cr VI by EPA 7199	95		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 10342020001A	Sample number(s): 6158233 BKG: P156759								

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

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
22b pH by 9040B						6.9	6.9	0	1
Batch number: 10342039403A	Sample number(s): 6158224-6158231					BKG: 6158224			
22a pH by 9045C						6.66	6.67	0	1
Batch number: 10342182103A	Sample number(s): 6158224-6158229					BKG: 6158224			
Oxidation Reduction Potential						456	456	0	6
Batch number: 10342182103B	Sample number(s): 6158230-6158231					BKG: 6158231			
Oxidation Reduction Potential						463	463	0	6
Batch number: 10354162401B	Sample number(s): 6158224-6158231					BKG: 6158227			
28a Total Solids by 160.3						12.4	12.9	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: 1a Volatile Organics EPA 8260B

Batch number: B103431AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6158224	104	107	96	94
6158225	102	98	97	91
6158226	105	102	99	89
6158227	104	99	97	92
6158228	104	101	97	92
6158229	103	99	97	91
6158230	105	102	95	92
6158231	105	100	97	91
Blank	105	102	96	93
LCS	102	106	99	100
LCSD	102	105	99	100
MS	101	100	101	99

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

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

Batch number: E103431AA

	Toluene-d8
6158232	101
6158233	101
Blank	100
LCS	100
LCSD	100

Limits: 80-120

*- Outside of specification

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Surrogate Quality Control

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103432AA
Toluene-d8

6158224	99
6158225	98
6158226	99
6158227	99
6158228	98
6158229	99
6158230	99
6158231	99
Blank	99
LCS	100
LCSD	100
MS	100
MSD	98

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103462AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6158232	100	98	103	100
6158233	99	97	104	99
Blank	99	96	104	100
LCS	99	99	105	101
LCSD	99	99	105	102

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

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 10342WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6158233	90	82	83
Blank	85	80	80
LCS	94	86	81
LCSD	88	80	78

Limits: 40-130 45-130 45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10344SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6158224	87	86	76	79	92	87
6158225	85	84	74	78	86	84
6158226	89	88	79	80	90	84
6158227	90	91	76	83	92	87
6158228	87	85	74	82	89	88
6158229	89	88	79	82	92	86
6158230	86	85	74	82	93	85
6158231	89	88	75	83	93	89
Blank	85	84	86	80	90	86
LCS	87	86	87	80	91	84

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Surrogate Quality Control

MS	91	88	85	82	89	88
MSD	95	94	87	87	95	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10344SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6158224	84	79	81
6158225	84	78	83
6158226	86	78	83
6158227	82	76	81
6158228	80	76	78
6158229	84	81	84
6158230	85	82	82
6158231	83	80	84
Blank	94	89	94
LCS	88	83	83
MS	89	81	82
MSD	92	83	83
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10345SLJ026
N-Nitrosodimethylamine-d6

6158224	90
6158225	90
6158226	87
6158227	80
6158228	99
6158229	84
6158230	81
6158231	77
Blank	93
LCS	95
MS	70
MSD	90
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 10345WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6158233	61	40	98	78	86	79
Blank	54	35	96	78	85	78
LCS	72	51	106	85	92	86
LCSD	67	44	103	87	94	90
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas
Batch number: 10343A34A

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Surrogate Quality Control

Trifluorotoluene-F

6158224	79
6158225	85
6158226	82
6158227	82
6158228	81
6158229	77
6158230	86
6158231	87
Blank	96
LCS	92
LCSD	93
MS	81
MSD	86

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10344A94A
Trifluorotoluene-F

6158232	86
Blank	86
LCS	91
LCSD	88
MS	89

Limits: 63-135

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10347A20A
Trifluorotoluene-F

6158233	85
Blank	85
LCS	116
LCSD	119
MS	119

Limits: 63-135

Analysis Name: 20a Energetics by 8330A
Batch number: 103420004A
2-Nitro-m-xylene

6158224	124
6158225	112
6158226	98
6158227	115
6158228	120
6158229	115
6158230	114
6158231	118
Blank	115
LCS	120
LCSD	116

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Surrogate Quality Control

MS 122
MSD 115

Limits: 80-146

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103430011A
Butyraldehyde

6158224	110
6158225	107
6158226	102
6158227	103
6158228	100
6158229	110
6158230	103
Blank	108
LCS	113
MS	113
MSD	111

Limits: 64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103440016A
Tetrachloro-m-xylene Decachlorobiphenyl

6158224	103	100
6158225	96	101
6158226	103	106
6158227	100	103
6158228	97	102
6158229	95	107
6158230	109	98
6158231	96	92
Blank	99	105
LCS	106	105
LCSD	107	109
MS	96	95
MSD	99	89

Limits: 53-139 45-120

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103450010A
Tetrachloro-m-xylene Decachlorobiphenyl

6158233	112	88
Blank	119	101
LCS	122	109
LCSD	115	89

Limits: 30-150 45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103480007A
Butyraldehyde

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Surrogate Quality Control

6158231	105
Blank	102
LCS	100
MS	102
MSD	99

Limits: 64-126

Analysis Name: 25a Alcohols by 8015B
Batch number: 103430001A
Acetone

6158224	87
6158225	86
6158226	101
6158227	90
6158228	83
6158229	87
6158230	109
6158231	92
Blank	102
LCS	99
MS	86
MSD	88

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103430002A
Tetramethylene glycol

6158224	93
6158225	38*
6158226	78
6158227	77
6158228	96
6158229	27*
6158230	96
6158231	105
Blank	107
LCS	118
MS	122*
MSD	85

Limits: 50-119

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103440015A
n-Triacontane-d62

6158224	96
6158225	98
6158226	96
6158227	95
6158228	96
6158229	95

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/05/11 at 10:36 AM

Group Number: 1224331

Surrogate Quality Control

6158230 102
6158231 103
Blank 100
LCS 97
MS 206*
MSD 96

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103470024A

	Chlorobenzene	Orthoterphenyl
6158224	76	80
6158225	65	71
6158226	69	80
6158227	68	85
6158228	60	78
6158229	64	77
6158230	69	82
6158231	67	78
Blank	80	89
LCS	82	86
MS	78	83
MSD	82	88

Limits: 37-125

47-145

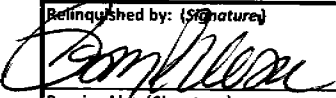
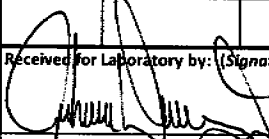
*- Outside of specification

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13013 1224331 6158224-33

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/60208&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																											
Samplers: (Signature) 																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-026-SA5C-SB-4.0-5.0	12/7/10	0930	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-026-SA5C-SB-4.0-5.0	12/7/10	0930	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-026-SA5C-SB-9.0-10.0	12/7/10	0935	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-026-SA5C-SB-9.0-10.0	12/7/10	0935	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-027-SA5C-SB-2.5-3.5	12/7/10	1123	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-027-SA5C-SB-2.5-3.5	12/7/10	1123	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-027-SA5C-SB-9.0-10.0	12/7/10	1125	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-027-SA5C-SB-9.0-10.0	12/7/10	1125	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-019-SA5C-SB-4.0-5.0	12/7/10	1355	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-019-SA5C-SB-4.0-5.0	12/7/10	1355	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-019-SA5C-SB-8.5-9.5	12/7/10	1404	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-019-SA5C-SB-8.5-9.5	12/7/10	1404	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-014-SA5C-SB-4.0-5.0	12/7/10	1529	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-014-SA5C-SB-9.0-10.0	12/7/10	1535	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
Relinquished by: (Signature) 		Date/Time 12.07.10 1630		Received for Laboratory by: (Signature) 		Date/Time 12/8/10 10:30																			Laboratory: Lancaster Laboratories, Inc.		
Received by: (Signature)		Date/Time		Airbill No. 00732992		Tracking Number 869514318185																			Cooler 1		

869514318185

13013 1224331 0158224-33

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						Other Instructions and Notes														
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																				
Samplers: (Signature) <i>Ramela Hartman</i>																				
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCS EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*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	**Glycols EPA 8015B	**Alcohols EPA 8015B	
EB13-SA5C-120710	12/7/10	1300	water	none	6 - 1 Liter amber glass			X						X	X					
EB13-SA5C-120710	12/7/10	1300	water	none	1 - 500 mL poly bottle							X	X			X				
EB13-SA5C-120710	12/7/10	1300	water	HNO ₃	1 - 500 mL poly bottle						X									
SL-014-SA5C-SB-9.0-10.0	12/7/10	1535	soil	none	2x16 oz. jars			X			X	X	X	X	X	X				
SL-014-SA5C-SB-4.0-5.0	12/7/10	1529	soil	none	2x16 oz. jars			X			X	X	X	X	X	X				
SL-014-SA5C-SB-9.0-10.0	12/7/10	1535	soil	none	3x4 oz. jars				X									X	X	
SL-014-SA5C-SB-4.0-5.0	12/7/10	1529	soil	none	3x4 oz. jars				X									X	X	
<i>Ramela Hartman</i> 12/7/10																				
Relinquished by: (Signature) <i>Ramela Hartman</i>		Date/Time 12.07.10 1630		Received for Laboratory by: (Signature) <i>[Signature]</i>		Date/Time 12/7/10 0930		Laboratory: Lancaster Laboratories, Inc.												
Received by: (Signature)		Date/Time		Airbill No. 00732992		Tracking Number 869514318200		Cooler 3												

869514318200

13013 1224331 6158224-33

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/60208&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																						
Samplers: (Signature) <i>Pamela Hartman</i>																						
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																	
SL-026-SA5C-SB-4.0-5.0	12/7/10	0930	soil	none	3 x 16 oz. jars					X										X	X	
SL-026-SA5C-SB-9.0-10.0	12/7/10	0935	soil	none	3 x 16 oz. jars					X										X	X	
SL-027-SA5C-SB-2.5-3.5	12/7/10	1123	soil	none	3 x 16 oz. jars					X										X	X	
SL-027-SA5C-SB-9.0-10.0	12/7/10	1125	soil	none	3 x 16 oz. jars					X										X	X	
SL-019-SA5C-SB-4.0-5.0	12/7/10	1355	soil	none	3 x 16 oz. jars					X										X	X	
SL-019-SA5C-SB-8.5-9.5	12/7/10	1404	soil	none	3 x 16 oz. jars					X										X	X	
SL-019-SA5C-SB-4.5	12/7/10	1350	soil	none	5 Encore samplers	X	X		X													
SL-019-SA5C-SB-9.0	12/7/10	1400	soil	none	5 Encore samplers	X	X		X													
SL-026-SA5C-SB-4.5	12/7/10	0925	soil	none	5 Encore samplers	X	X		X													
SL-026-SA5C-SB-9.5	12/7/10	0933	soil	none	5 Encore samplers	X	X		X													
SL-027-SA5C-SB-3.0	12/7/10	1115	soil	none	5 Encore samplers	X	X		X													
SL-027-SA5C-SB-9.5	12/7/10	1122	soil	none	5 Encore samplers	X	X		X													
TB-120910 120710 NM K15010	12/7/10	1630	water	HCl	4-40 ml vials	X	X		X													
EB13-SA5C-120710	12/7/10	1300	water	HCl	6-40 ml vials	X	X		X													
SL-014-SA5C-SB-4.5	12/7/10	1525	soil	none	5 Encore samplers	X	X		X													
SL-014-SA5C-SB-9.5	12/7/10	1533	soil	none	5 Encore samplers	X	X		X													
Relinquished by: (Signature) <i>Don Plavin</i>	Date/Time	12.07.10	1630	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date/Time	12/10	0930	Laboratory: Lancaster Laboratories, Inc.														
Received by: (Signature)	Date/Time			Airbill No. 00782992	Tracking Number 869514318196																	
Cooler 2																						

This ID was updated per PB on 12/10/10. num 12/10/10

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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 $\geq IDL$
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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ANALYTICAL RESULTS

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Prepared for:

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January 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/10/2010

Group Number: 1225035

SDG: DE033

PO Number: 1203-004-007-AL

Release Number: Tracking #11667

State of Sample Origin: CA

Client Sample DescriptionLancaster Labs (LLI) #

SL-015-SA5C-SB-4.0-5.0 Soil	6162855
SL-015-SA5C-SB-9.0-10.0 Soil	6162856
SL-020-SA5C-SB-4.0-5.0 Soil	6162857
SL-020-SA5C-SB-7.5-8.5 Soil	6162858
TB-120810 Water	6162859
SL-016-SA5C-SB-4.0-5.0 Soil	6162860
SL-016-SA5C-SB-9.0-10.0 Soil	6162861
SL-021-SA5C-SB-4.0-5.0 Soil	6162862
SL-021-SA5C-SB-9.0-10.0 Soil	6162863
SL-017-SA5B-SS-0.0-0.5 Soil	6162864
SL-017-SA5B-SS-0.0-0.5MS Soil	6162865
SL-017-SA5B-SS-0.0-0.5MSD Soil	6162866
SL-017-SA5B-SS-0.0-0.5DUP Soil	6162867
EB-01-SA5B-120910 Water	6162868
TB-120910 Water	6162869
EB14-SA5C-120810 Water	6162870
SL-029-SA5B-SS-0.0-0.5 Soil	6162871
SL-034-SA5B-SS-0.0-0.5 Soil	6162872
SL-035-SA5B-SS-0.0-0.5 Soil	6162873
SL-036-SA5B-SS-0.0-0.5 Soil	6162874
SL-022-SA5C-SB-4.0-5.0 Soil	6162875
SL-022-SA5C-SB-9.0-10.0 Soil	6162876
SL-012-SA5C-SB-4.0-5.0 Soil	6162877
SL-012-SA5C-SB-9.0-10.0 Soil	6162878
SL-013-SA5C-SB-4.0-5.0 Soil	6162879
SL-013-SA5C-SB-9.0-10.0 Soil	6162880

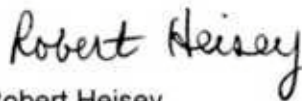
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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

Attn: Todd Burgess

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

Respectfully Submitted,



Robert Heisey
Senior Specialist