

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA7-SB-4.0-5.0 MS (SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	FLUORIDE	42	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	ARSENIC BERYLLIUM CADMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM	144 133 145 140 145 134 139 142 132 130	130 - 133 128 129 - - 130 - -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM	J(all detects) V, No Qual, >4x
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	ANTIMONY ZINC	66 -	61 69	75.00-125.00 75.00-125.00	- -	ANTIMONY ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x
SL-102-SA7-SB-4.0-5.0 MS (SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	SELENIUM	128	-	75.00-125.00	-	SELENIUM	J(all detects)
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	MOLYBDENUM	142	133	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	BARIUM	146	128	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0)	BENZOIC ACID	-	-	10.00-173.00	35 (30.00)	BENZOIC ACID	J(all detects)
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0)	2,4-DINITROPHENOL	0	0	20.00-143.00	-	2,4-DINITROPHENOL	J(all detects) R(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA7-SB-4.0-5.0 MS (SL-102-SA7-SB-4.0-5.0)	BENZIDINE	32	-	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA7-SB-4.0-5.0 MS SL-102-SA7-SB-4.0-5.0 MSD (SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	ALUMINUM	-1214	-39	75.00-125.00	-	ALUMINUM	No Qual, >4x

Lab Duplicate Outlier Report

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eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-102-SA7-SB-4.0-5.0 DUP (SL-102-SA7-SB-4.0-5.0 SL -102-SA7-SB-9.0-10.0 SL -109-SA7-SB-4.0-5.0 SL -109-SA7-SB-9.0-10.0)	Zirconium	57	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-102-SA7-SB-4.0-5.0 DUP (SL-102-SA7-SB-4.0-5.0 SL -102-SA7-SB-9.0-10.0 SL -109-SA7-SB-4.0-5.0 SL -109-SA7-SB-9.0-10.0)	MERCURY	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27308AQ220157 (SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	IRON MAGNESIUM POTASSIUM	142 133 123	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	IRON MAGNESIUM POTASSIUM	No Qual, SRM Within QC Limits

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27726AQ221132A (SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0)	VANADIUM	123	-	80.00-120.00	-	VANADIUM	No Qual, SRM Within QC Limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-102-SA7-SB-4.0-5.0	DUP007-SA7-QC-092611			
MOISTURE	4.6	5.100000000	10		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-102-SA7-SB-4.0-5.0	DUP007-SA7-QC-092611			
FLUORIDE	2.4	2.500000000	4	50.00	No Qualifiers Applied
Nitrate-NO3	2.4	3.500000000	37	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-102-SA7-SB-4.0-5.0	DUP007-SA7-QC-092611			
ALUMINUM	18400	15000.000000000	20	50.00	No Qualifiers Applied
BORON	6.49	5.750000000	12	50.00	
CALCIUM	3550	3920.000000000	10	50.00	
IRON	19100	18600.000000000	3	50.00	
LITHIUM	24.2	23.800000000	2	50.00	
MAGNESIUM	4270	4210.000000000	1	50.00	
MANGANESE	230	231.000000000	0	50.00	
PHOSPHORUS	273	265.000000000	3	50.00	
POTASSIUM	2780	2640.000000000	5	50.00	
SODIUM	130	107.000000000	19	50.00	
STRONTIUM	15.5	18.100000000	15	50.00	
TIN	2.82	2.650000000	6	50.00	
TITANIUM	1160	1080.000000000	7	50.00	
Zirconium	1.35	0.923000000	38	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-102-SA7-SB-4.0-5.0	DUP007-SA7-QC-092611			
ANTIMONY	0.143	0.101000000	34	50.00	No Qualifiers Applied
ARSENIC	5.43	5.030000000	8	50.00	
BARIUM	100	97.000000000	3	50.00	
BERYLLIUM	0.765	0.701000000	9	50.00	
CADMIUM	0.0840	0.085400000	2	50.00	
CHROMIUM	19.8	16.000000000	21	50.00	
COBALT	6.22	5.630000000	10	50.00	
COPPER	8.32	6.640000000	22	50.00	
LEAD	6.21	6.250000000	1	50.00	
MOLYBDENUM	0.592	0.525000000	12	50.00	
NICKEL	12.2	10.300000000	17	50.00	
SELENIUM	0.133	0.099500000	29	50.00	
SILVER	0.0211	0.026600000	23	50.00	
THALLIUM	0.356	0.288000000	21	50.00	
VANADIUM	42.3	34.100000000	21	50.00	
ZINC	71.1	66.600000000	7	50.00	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: DE254_v2.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-102-SA7-SB-4.0-5.0	DUP007-SA7-QC-092611			
MERCURY	0.0121	0.103000000 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-102-SA7-SB-4.0-5.0	DUP007-SA7-QC-092611			
EFH (C21-C30)	2.1	2.600000000	21	50.00	No Qualifiers Applied
EFH (C30-C40)	5.5	4.400000000	22	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-102-SA7-SB-4.0-5.0	DUP007-SA7-QC-092611			
ACENAPHTHENE	1.4	1.700000000 U	200	50.00	J(all detects) UJ(all non-detects)
ACENAPHTHYLENE	1.2	1.700000000 U	200	50.00	
ANTHRACENE	2.9	1.700000000 U	200	50.00	
BENZO(A)ANTHRACENE	2.9	1.700000000 U	200	50.00	
BENZO(A)PYRENE	2.9	1.700000000 U	200	50.00	
BENZO(B)FLUORANTHENE	3.2	1.700000000 U	200	50.00	
BENZO(G,H,I)PERYLENE	3.1	1.700000000 U	200	50.00	
BENZO(K)FLUORANTHENE	3.1	1.700000000 U	200	50.00	
CHRYSENE	2.9	1.700000000 U	200	50.00	
DIBENZO(A,H)ANTHRACENE	3.0	1.700000000 U	200	50.00	
FLUORANTHENE	3.1	1.700000000 U	200	50.00	
FLUORENE	2.4	1.700000000 U	200	50.00	
INDENO(1,2,3-CD)PYRENE	3.0	1.700000000 U	200	50.00	
PHENANTHRENE	2.9	1.700000000 U	200	50.00	
PYRENE	3.0	1.700000000 U	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-102-SA7-SB-4.0-5.0	DUP007-SA7-QC-092611			
PH	8.19	7.810000000	5	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE254

Laboratory: LL

EDD Filename: PrepDE254_v2

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA7-SB-4.0-5.0	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA7-SB-4.0-5.0	TIN	J	2.82	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.35	5.19	PQL	mg/Kg	
SL-102-SA7-SB-9.0-10.0	TIN	J	3.02	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.98	5.74	PQL	mg/Kg	
SL-109-SA7-SB-4.0-5.0	TIN	J	2.86	10.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.18	5.07	PQL	mg/Kg	
SL-109-SA7-SB-9.0-10.0	TIN	J	2.73	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.32	5.37	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA7-SB-4.0-5.0	ANTIMONY	J	0.143	0.210	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0840	0.105	PQL	mg/Kg	
	SELENIUM	J	0.133	0.419	PQL	mg/Kg	
	SILVER	J	0.0211	0.105	PQL	mg/Kg	
SL-102-SA7-SB-9.0-10.0	SELENIUM	J	0.137	0.451	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0510	0.113	PQL	mg/Kg	
SL-109-SA7-SB-4.0-5.0	ANTIMONY	J	0.0824	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.406	PQL	mg/Kg	
	SILVER	J	0.0190	0.101	PQL	mg/Kg	
SL-109-SA7-SB-9.0-10.0	ANTIMONY	J	0.128	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0885	0.430	PQL	mg/Kg	
	SILVER	J	0.0423	0.107	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.61	1.2	PQL	mg/Kg	J (all detects)
SL-109-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE254

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eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA7-SB-4.0-5.0	MERCURY	J	0.0121	0.103	PQL	mg/Kg	J (all detects)
SL-102-SA7-SB-9.0-10.0	MERCURY	J	0.0116	0.112	PQL	mg/Kg	J (all detects)
SL-109-SA7-SB-9.0-10.0	MERCURY	J	0.0106	0.105	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA7-SB-9.0-10.0	EFH (C15-C20)	J	0.50	1.3	PQL	mg/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA7-SB-4.0-5.0	ACENAPHTHENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	1.2	1.7	PQL	ug/Kg	
SL-102-SA7-SB-9.0-10.0	ANTHRACENE	J	0.47	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.71	1.9	PQL	ug/Kg	
	PYRENE	J	0.87	1.9	PQL	ug/Kg	
SL-109-SA7-SB-9.0-10.0	ANTHRACENE	J	0.64	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.77	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.79	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.80	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.73	1.8	PQL	ug/Kg	
	CHRYSENE	J	0.94	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.72	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.98	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.76	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.97	1.8	PQL	ug/Kg	
	PYRENE	J	1.0	1.8	PQL	ug/Kg	

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti, V, Zn 74X
VII.	Duplicate Sample Analysis	NA	Hg, Zr 45X
VIII.	Laboratory Control Samples (LCS)	NA	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Ca, Pb, V U/T
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	SL-102-SA7-SB-4.0-5.0	11		21		31	
2	SL-102-SA7-SB-9.0-10.0	12		22		32	
3	SL-109-SA7-SB-4.0-5.0	13		23		33	
4	SL-109-SA7-SB-9.0-10.0	14		24		34	
5	SL-102-SA7-SB-4.0-5.0MS	15		25		35	
6	SL-102-SA7-SB-4.0-5.0MSD	16		26		36	
7	SL-102-SA7-SB-4.0-5.0DUP	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

**VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES**

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: Zr:100X, Hg: 167X

Associated Samples: All Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2	3	4					
Hg			0.088	0.073	0.012	0.012							
Zr			6.6	3.3	1.4		1.2	2.3					

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE254
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6419519BKG Matrix Spike Lab Sample ID: 6419520MS Matrix Spike Duplicate Lab Sample ID: 6419521MSD
 % Solids for Sample: 95.4
 Batch Id(s): P28008B, P27726A, P27308A, P27311A

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C				%R	Q	%R	Q	%R	RPD
Aluminum	121	18378.0660		15855.3760		18294.9335		207.5679	207.5679	MG/KG	-1215		-40		74	20P
Antimony	73	0.1430	B	0.9679		0.8866		1.2454	1.2212	MG/KG	66N		61N		75 - 125	20MS
Arsenic	137	5.4319		8.4231		8.0723		2.0757	2.0354	MG/KG	144N		130N		75 - 125	20MS
Barium	9	99.9790		115.1172		113.0940		10.3784	10.1769	MG/KG	146		128		74	20MS
Beryllium	111	0.7654		1.8708		1.7807		0.8303	0.8141	MG/KG	133N		125		75 - 125	20MS
Boron	63	6.4896		210.6127		209.1524		205.5329	205.5329	MG/KG	99		99		84 - 115	20P
Cadmium	52	0.0840	B	1.5887		1.4396		1.0378	1.0177	MG/KG	145N		133N		75 - 125	20MS
Calcium	52	3553.4352		3747.3908		4099.0217		411.0659	411.0659	MG/KG	47		133		74	20P
Chromium	59	19.7715		32.2768		30.1032		10.3784	10.1769	MG/KG	120		102		75 - 125	20MS
Cobalt	63	6.2159		79.0419		71.2585		51.8920	50.8844	MG/KG	140N		128N		75 - 125	20MS
Copper	208	8.3187		23.3514		21.4325		10.3784	10.1769	MG/KG	145N		129N		75 - 125	20MS
Iron	66	19066.1083		18892.7632		18888.2579		102.7665	102.7665	MG/KG	-169		-173		74	20P
Lead	66	6.2096		10.3784		9.8268		3.1135	3.0531	MG/KG	134N		118		75 - 125	20MS
Lithium	66	24.1671		127.2701		126.8930		102.7665	102.7665	MG/KG	100		100		82 - 114	20P
Magnesium	66	4266.6438		4442.1661		4596.6323		205.5329	205.5329	MG/KG	85		161		74	20P
Manganese	66	229.9220		271.9746		275.0391		51.3832	51.3832	MG/KG	82		88		74	20P
Mercury	66	0.0121	B	0.1811		0.1808		0.1646	0.1629	MG/KG	103		104		65 - 135	20CV
Molybdenum	60	0.5916		15.3517		14.1642		10.3784	10.1769	MG/KG	142N		133N		75 - 125	20MS
Nickel	60	12.1719		26.6310		24.9333		10.3784	10.1769	MG/KG	139N		125		75 - 125	20MS
Phosphorus	66	273.4168		364.8477		393.6603		102.7665	102.7665	MG/KG	89		117		75 - 125	20P
Potassium	66	2777.4903		3772.9570		3869.3037		1027.6647	1027.6647	MG/KG	97		106		75 - 125	20P
Selenium	66	0.1330	B	2.7939		2.5666		2.0757	2.0354	MG/KG	128N		120		75 - 125	20MS
Silver	66	0.0211	B	14.7332		13.2686		10.3784	10.1769	MG/KG	142N		130N		75 - 125	20MS
Sodium	66	129.9292		1160.1739		1152.5126		1027.6647	1027.6647	MG/KG	100		100		75 - 125	20P
Strontium	66	15.4586		116.7848		117.6995		102.7665	102.7665	MG/KG	99		99		75 - 115	20P
Thallium	66	0.3556		0.9042		0.8201		0.4151	0.4071	MG/KG	132N		114		75 - 125	20MS
Tin	66	2.8219	B	371.2624		367.6255		411.0659	411.0659	MG/KG	90		89		80 - 110	20P
Titanium	66	1160.1573		1368.2472		1393.1393		102.7665	102.7665	MG/KG	202		227		74	20P
Vanadium	66	42.2851		55.7527		52.8587		10.3784	10.1769	MG/KG	130		104		74	20MS
Zinc	66	71.1321		83.3385		78.1991		10.3784	10.1769	MG/KG	118		69		74	20MS
Zirconium	66	1.3502	B	104.4539		103.9092		102.7665	102.7665	MG/KG	100		100		81 - 110	20P

METHODS: ICP-Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP-Atomic Mass Spectrometry AF = Cold Vapor Atomic Fluorescence
 CONCENTRATION QUALIFIERS:
 U= Below MDL, B= Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE255

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	3050B	6010B	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	3050B	6020	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	3060A	7199	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	3546	1625C	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	3550B	8015B	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	3550B	8015M	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	3550B	8082	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	3550B	8270C	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	3550B	8270C SIM	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	5035	8015M	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	METHOD	300.0	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	METHOD	314.0	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	METHOD	7471A	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	METHOD	8015B	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	METHOD	8015M	III
26-Sep-2011	DUP007-SA7-QC-092611	6419536	FD	METHOD	8315A	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	3050B	6010B	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	3050B	6020	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	3060A	7199	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	3546	1625C	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	3550B	8015B	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	3550B	8015M	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	3550B	8082	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	3550B	8270C	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	3550B	8270C SIM	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	5035	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	METHOD	300.0	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	METHOD	314.0	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	METHOD	7471A	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	METHOD	8015B	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	METHOD	8015M	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419534	N	METHOD	8315A	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0MSD	P419534M320900A	MSD	3550B	8015M	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0MS	P419534R320836A	MS	3550B	8015M	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	3050B	6010B	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	3050B	6020	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	3060A	7199	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	3546	1625C	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	3550B	8015B	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	3550B	8015M	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	3550B	8082	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	3550B	8270C	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	3550B	8270C SIM	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	5035	8015M	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	METHOD	300.0	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	METHOD	314.0	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	METHOD	7471A	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	METHOD	8015B	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	METHOD	8015M	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419535	N	METHOD	8315A	III
26-Sep-2011	TB-092611	6419538	TB	5030B	8015M	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0	6419528	N	3050B	6010B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-125-SA7-SB-4.0-5.0	6419528	N	3050B	6020	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0	6419528	N	3060A	7199	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0	6419528	N	3550B	8082	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0	6419528	N	3550B	8270C	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0	6419528	N	3550B	8270C SIM	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0	6419528	N	METHOD	300.0	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0	6419528	N	METHOD	314.0	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0	6419528	N	METHOD	7471A	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MS	6419529	MS	3050B	6010B	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MS	6419529	MS	3050B	6020	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MS	6419529	MS	3060A	7199	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MS	6419529	MS	3550B	8082	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MS	6419529	MS	3550B	8270C	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MS	6419529	MS	3550B	8270C SIM	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MS	6419529	MS	METHOD	300.0	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MS	6419529	MS	METHOD	314.0	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MS	6419529	MS	METHOD	7471A	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MSD	6419530	MSD	3050B	6010B	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MSD	6419530	MSD	3050B	6020	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MSD	6419530	MSD	3550B	8082	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MSD	6419530	MSD	3550B	8270C	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MSD	6419530	MSD	3550B	8270C SIM	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MSD	6419530	MSD	METHOD	7471A	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 DUP	6419531	DUP	3050B	6010B	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 DUP	6419531	DUP	3050B	6020	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 DUP	6419531	DUP	3060A	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 DUP	6419531	DUP	METHOD	300.0	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 DUP	6419531	DUP	METHOD	314.0	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 DUP	6419531	DUP	METHOD	7471A	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0DUP	P419528D270239B	DUP	METHOD	300.0	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0MS	P419528R270252B	MS	METHOD	300.0	III
26-Sep-2011	DUP008-SA7-QC-092611	6419537	FD	3050B	6010B	III
26-Sep-2011	DUP008-SA7-QC-092611	6419537	FD	3050B	6020	III
26-Sep-2011	DUP008-SA7-QC-092611	6419537	FD	3060A	7199	III
26-Sep-2011	DUP008-SA7-QC-092611	6419537	FD	3550B	8082	III
26-Sep-2011	DUP008-SA7-QC-092611	6419537	FD	3550B	8270C	III
26-Sep-2011	DUP008-SA7-QC-092611	6419537	FD	3550B	8270C SIM	III
26-Sep-2011	DUP008-SA7-QC-092611	6419537	FD	METHOD	300.0	III
26-Sep-2011	DUP008-SA7-QC-092611	6419537	FD	METHOD	314.0	III
26-Sep-2011	DUP008-SA7-QC-092611	6419537	FD	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: DUP007-SA7-QC-092611	Collected: 9/26/2011 9:23:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: DUP008-SA7-QC-092611	Collected: 9/26/2011 3:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-125-SA7-SB-4.0-5.0	Collected: 9/26/2011 2:52:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-170-SA7-SB-4.0-5.0	Collected: 9/26/2011 11:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-170-SA7-SB-9.0-10.0	Collected: 9/26/2011 11:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.83	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.2	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP007-SA7-QC-092611	Collected: 9/26/2011 9:23:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.65	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	0.923	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/9/2012 10:23:02 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP008-SA7-QC-092611 Collected: 9/26/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	68.3	J	5.96	MDL	100	PQL	mg/Kg	J	Z
TIN	2.35	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	1.04	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA7-SB-4.0-5.0 Collected: 9/26/2011 2:52:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	65.5	J	5.84	MDL	98.1	PQL	mg/Kg	J	Z
TIN	2.41	J	0.314	MDL	9.81	PQL	mg/Kg	U	B
Zirconium	1.22	J	0.451	MDL	4.91	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA7-SB-4.0-5.0 Collected: 9/26/2011 11:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	93.2	J	6.03	MDL	101	PQL	mg/Kg	J	Z
TIN	2.47	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.09	J	0.466	MDL	5.06	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA7-SB-9.0-10.0 Collected: 9/26/2011 11:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.54	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	0.718	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP007-SA7-QC-092611 Collected: 9/26/2011 9:23:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0995	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/9/2012 10:23:02 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP007-SA7-QC-092611 Collected: 9/26/2011 9:23:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.0		0.108	MDL	0.409	PQL	mg/Kg	J	E, A

Sample ID: DUP007-SA7-QC-092611 Collected: 9/26/2011 9:23:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0757	MDL	0.205	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0854	J	0.0450	MDL	0.102	PQL	mg/Kg	J	Z, Q
COBALT	5.63		0.0205	MDL	0.102	PQL	mg/Kg	J	E, A
COPPER	6.64		0.0818	MDL	0.409	PQL	mg/Kg	J	E, A
LEAD	6.25		0.0104	MDL	0.205	PQL	mg/Kg	J	E, A
NICKEL	10.3		0.102	MDL	0.409	PQL	mg/Kg	J	A
SILVER	0.0266	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	34.1		0.0225	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	66.6		0.573	MDL	3.07	PQL	mg/Kg	J	E, A

Sample ID: DUP008-SA7-QC-092611 Collected: 9/26/2011 3:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0581	MDL	0.400	PQL	mg/Kg	J	Z

Sample ID: DUP008-SA7-QC-092611 Collected: 9/26/2011 3:00:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.106	MDL	0.400	PQL	mg/Kg	J	E, A

Sample ID: DUP008-SA7-QC-092611 Collected: 9/26/2011 3:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.131	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
CADMIUM	0.128		0.0440	MDL	0.100	PQL	mg/Kg	J	Q
COBALT	7.32		0.0200	MDL	0.100	PQL	mg/Kg	J	E, A
COPPER	9.30		0.0801	MDL	0.400	PQL	mg/Kg	J	E, A
LEAD	6.44		0.0102	MDL	0.200	PQL	mg/Kg	J	E, A
NICKEL	14.2		0.100	MDL	0.400	PQL	mg/Kg	J	A
SILVER	0.0356	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP008-SA7-QC-092611 Collected: 9/26/2011 3:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	42.5		0.0220	MDL	0.100	PQL	mg/Kg	J	Q
ZINC	89.8		0.561	MDL	3.00	PQL	mg/Kg	J	E, A

Sample ID: SL-125-SA7-SB-4.0-5.0 Collected: 9/26/2011 2:52:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.171	J	0.0575	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA7-SB-4.0-5.0 Collected: 9/26/2011 2:52:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.105	MDL	0.396	PQL	mg/Kg	J	E, A

Sample ID: SL-125-SA7-SB-4.0-5.0 Collected: 9/26/2011 2:52:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0733	MDL	0.198	PQL	mg/Kg	J	Z, Q
CADMIUM	0.124		0.0436	MDL	0.0991	PQL	mg/Kg	J	Q
COBALT	5.98		0.0198	MDL	0.0991	PQL	mg/Kg	J	E, A
COPPER	8.11		0.0793	MDL	0.396	PQL	mg/Kg	J	E, A
LEAD	5.24		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A
NICKEL	11.9		0.0991	MDL	0.396	PQL	mg/Kg	J	A
SILVER	0.0200	J	0.0141	MDL	0.0991	PQL	mg/Kg	J	Z, FD
VANADIUM	36.3		0.0218	MDL	0.0991	PQL	mg/Kg	J	Q
ZINC	73.9		0.555	MDL	2.97	PQL	mg/Kg	J	E, A

Sample ID: SL-170-SA7-SB-4.0-5.0 Collected: 9/26/2011 11:15:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0582	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA7-SB-4.0-5.0 Collected: 9/26/2011 11:15:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.4		0.106	MDL	0.401	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-170-SA7-SB-4.0-5.0 Collected: 9/26/2011 11:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0865	J	0.0742	MDL	0.201	PQL	mg/Kg	J	Z, Q
CADMIUM	0.102		0.0441	MDL	0.100	PQL	mg/Kg	J	Q
COBALT	5.72		0.0201	MDL	0.100	PQL	mg/Kg	J	E, A
COPPER	6.64		0.0802	MDL	0.401	PQL	mg/Kg	J	E, A
LEAD	4.95		0.0102	MDL	0.201	PQL	mg/Kg	J	E, A
NICKEL	10.2		0.100	MDL	0.401	PQL	mg/Kg	J	A
SILVER	0.0228	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z
VANADIUM	30.9		0.0221	MDL	0.100	PQL	mg/Kg	J	Q
ZINC	68.7		0.562	MDL	3.01	PQL	mg/Kg	J	E, A

Sample ID: SL-170-SA7-SB-9.0-10.0 Collected: 9/26/2011 11:30:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA7-SB-9.0-10.0 Collected: 9/26/2011 11:30:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.2		0.109	MDL	0.411	PQL	mg/Kg	J	E, A

Sample ID: SL-170-SA7-SB-9.0-10.0 Collected: 9/26/2011 11:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0852	J	0.0761	MDL	0.206	PQL	mg/Kg	J	Z, Q
CADMIUM	0.103	J	0.0452	MDL	0.103	PQL	mg/Kg	J	Q
COBALT	5.50		0.0206	MDL	0.103	PQL	mg/Kg	J	E, A
COPPER	6.92		0.0823	MDL	0.411	PQL	mg/Kg	J	E, A
LEAD	5.08		0.0105	MDL	0.206	PQL	mg/Kg	J	E, A
NICKEL	10.6		0.103	MDL	0.411	PQL	mg/Kg	J	A
SILVER	0.0163	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	32.3		0.0226	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	69.5		0.576	MDL	3.08	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7199 **Matrix:** SO

Sample ID: DUP008-SA7-QC-092611 Collected: 9/26/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, FD

Sample ID: SL-125-SA7-SB-4.0-5.0 Collected: 9/26/2011 2:52:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.21	U	0.21	MDL	1.0	PQL	mg/Kg	UJ	FD

Sample ID: SL-170-SA7-SB-4.0-5.0 Collected: 9/26/2011 11:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: DUP007-SA7-QC-092611 Collected: 9/26/2011 9:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0072	U	0.0072	MDL	0.103	PQL	mg/Kg	UJ	FD

Method Category: SVOA
Method: 8015M **Matrix:** SO

Sample ID: DUP007-SA7-QC-092611 Collected: 9/26/2011 9:23:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	2.6		0.42	MDL	1.3	PQL	mg/Kg	U	B
EFH (C30-C40)	4.4		0.42	MDL	1.3	PQL	mg/Kg	U	B

Sample ID: SL-170-SA7-SB-4.0-5.0 Collected: 9/26/2011 11:15:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.45	J	0.41	MDL	1.2	PQL	mg/Kg	U	B
EFH (C21-C30)	2.5		0.41	MDL	1.2	PQL	mg/Kg	U	B
EFH (C30-C40)	8.2		0.41	MDL	1.2	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: PrepDE255_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA		
Method: 8015M	Matrix: SO	

Sample ID: SL-170-SA7-SB-9.0-10.0 Collected: 9/26/2011 11:30:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.43	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C21-C30)	1.7		0.41	MDL	1.2	PQL	mg/Kg	U	B
EFH (C30-C40)	5.1		0.41	MDL	1.2	PQL	mg/Kg	U	B

Sample ID: SL-170-SA7-SB-9.0-10.0 Collected: 9/26/2011 11:30:00 Analysis Type: RES Dilution: 28.6

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.8	J	0.2	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: SVOA		
Method: 8082	Matrix: SO	

Sample ID: DUP008-SA7-QC-092611 Collected: 9/26/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-125-SA7-SB-4.0-5.0 Collected: 9/26/2011 2:52:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.92	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, FD, Q

Sample ID: SL-170-SA7-SB-4.0-5.0 Collected: 9/26/2011 11:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.46	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA		
Method: 8270C	Matrix: SO	

Sample ID: SL-125-SA7-SB-4.0-5.0 Collected: 9/26/2011 2:52:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	330	U	330	MDL	1000	PQL	ug/Kg	R	Q
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	330	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C **Matrix:** SO

Sample ID: SL-125-SA7-SB-4.0-5.0 Collected: 9/26/2011 2:52:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	33	U	33	MDL	170	PQL	ug/Kg	R	Q
4-CHLOROPHENYL-PHENYLETHER	33	U	33	MDL	170	PQL	ug/Kg	UJ	Q
ANILINE	170	U	170	MDL	500	PQL	ug/Kg	R	Q
BENZIDINE	1200	U	1200	MDL	3300	PQL	ug/Kg	R	Q, Q
BENZO(G,H,I)PERYLENE	51	J	17	MDL	170	PQL	ug/Kg	J	Z, Q
BENZOIC ACID	170	U	170	MDL	500	PQL	ug/Kg	R	Q
BIS(2-CHLOROISOPROPYL) ETHER	17	U	17	MDL	170	PQL	ug/Kg	R	Q
CHRYSENE	52	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: DUP007-SA7-QC-092611 Collected: 9/26/2011 9:23:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
ACENAPHTHYLENE	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	FD
ANTHRACENE	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
CHRYSENE	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	FD
DIBENZO(A,H)ANTHRACENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
FLUORENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
PYRENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: DUP008-SA7-QC-092611 Collected: 9/26/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	2.5		0.69	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	3.3		0.69	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	0.92	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD
DIBENZO(A,H)ANTHRACENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.74	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	0.87	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD
PYRENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-125-SA7-SB-4.0-5.0 Collected: 9/26/2011 2:52:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	7.6	J	6.8	MDL	17	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	15	J	6.8	MDL	17	PQL	ug/Kg	J	Z, FD
BENZO(B)FLUORANTHENE	51		6.8	MDL	17	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	6.8	U	6.8	MDL	17	PQL	ug/Kg	UJ	FD
DIBENZO(A,H)ANTHRACENE	9.0	J	6.8	MDL	17	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	6.8	U	6.8	MDL	17	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	6.8	U	6.8	MDL	17	PQL	ug/Kg	UJ	FD
PYRENE	10	J	6.8	MDL	17	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE255

Method Blank Outlier Report

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method:	6010B
Matrix:	SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27208CB222343	10/4/2011 11:43:00 PM	CALCIUM MANGANESE PHOSPHORUS STRONTIUM TIN	6.97 mg/Kg 0.0380 mg/Kg 1.31 mg/Kg 0.0420 mg/Kg 1.49 mg/Kg	DUP007-SA7-QC-092611 DUP008-SA7-QC-092611 SL-125-SA7-SB-4.0-5.0 SL-170-SA7-SB-4.0-5.0 SL-170-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP007-SA7-QC-092611(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
DUP008-SA7-QC-092611(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-125-SA7-SB-4.0-5.0(RES)	TIN	2.41 mg/Kg	2.41U mg/Kg
SL-170-SA7-SB-4.0-5.0(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-170-SA7-SB-9.0-10.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg

Method:	6020
Matrix:	SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27226CB220936A	9/30/2011 9:36:00 AM	LEAD VANADIUM	0.0450 mg/Kg 0.0337 mg/Kg	DUP007-SA7-QC-092611 DUP008-SA7-QC-092611 SL-125-SA7-SB-4.0-5.0 SL-170-SA7-SB-4.0-5.0 SL-170-SA7-SB-9.0-10.0

Method:	8015M
Matrix:	SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P78788AB320550A	10/8/2011 5:50:00 AM	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	2.0 mg/Kg 7.3 mg/Kg 5.2 mg/Kg	DUP007-SA7-QC-092611 SL-170-SA7-SB-4.0-5.0 SL-170-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP007-SA7-QC-092611(REA2)	EFH (C21-C30)	2.6 mg/Kg	2.6U mg/Kg
DUP007-SA7-QC-092611(REA2)	EFH (C30-C40)	4.4 mg/Kg	4.4U mg/Kg
SL-170-SA7-SB-4.0-5.0(REA2)	EFH (C15-C20)	0.45 mg/Kg	1.2U mg/Kg
SL-170-SA7-SB-4.0-5.0(REA2)	EFH (C21-C30)	2.5 mg/Kg	2.5U mg/Kg
SL-170-SA7-SB-4.0-5.0(REA2)	EFH (C30-C40)	8.2 mg/Kg	8.2U mg/Kg
SL-170-SA7-SB-9.0-10.0(REA2)	EFH (C21-C30)	1.7 mg/Kg	1.7U mg/Kg
SL-170-SA7-SB-9.0-10.0(REA2)	EFH (C30-C40)	5.1 mg/Kg	5.1U mg/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-170-SA7-SB-4.0-5.0MSD (SL-170-SA7-SB-4.0-5.0)	EFH (C12-C14)	-	-	49.00-123.00	21 (20.00)	EFH (C12-C14)	J (all detects)
SL-170-SA7-SB-4.0-5.0MS SL-170-SA7-SB-4.0-5.0MSD (SL-170-SA7-SB-4.0-5.0)	EFH (C30-C40)	29	42	49.00-123.00	-	EFH (C30-C40)	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA7-SB-4.0-5.0 MSD (SL-125-SA7-SB-4.0-5.0)	AROCLOR 1260	-	-	39.00-149.00	70 (50.00)	AROCLOR 1260, AROCLOR 1242, AROCLOR 1248, AROCLOR 1254	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA7-SB-4.0-5.0 MSD (DUP007 -SA7-QC-092611 DUP008 -SA7-QC-092611 SL -125-SA7-SB-4.0-5.0 SL -170-SA7-SB-4.0-5.0 SL -170-SA7-SB-9.0-10.0)	CADMIUM	-	131	75.00-125.00	-	CADMIUM	J(all detects)
SL-125-SA7-SB-4.0-5.0 MS SL-125-SA7-SB-4.0-5.0 MSD (DUP007 -SA7-QC-092611 DUP008 -SA7-QC-092611 SL -125-SA7-SB-4.0-5.0 SL -170-SA7-SB-4.0-5.0 SL -170-SA7-SB-9.0-10.0)	ZINC	21	44	75.00-125.00	-	ZINC	No Qual, >4x
SL-125-SA7-SB-4.0-5.0 MS SL-125-SA7-SB-4.0-5.0 MSD (DUP007 -SA7-QC-092611 DUP008 -SA7-QC-092611 SL -125-SA7-SB-4.0-5.0 SL -170-SA7-SB-4.0-5.0 SL -170-SA7-SB-9.0-10.0)	ANTIMONY VANADIUM	63 64	64 -	75.00-125.00 75.00-125.00	- -	ANTIMONY VANADIUM	J(all detects) UJ(all non-detects)
SL-125-SA7-SB-4.0-5.0 MS SL-125-SA7-SB-4.0-5.0 MSD (DUP007 -SA7-QC-092611 DUP008 -SA7-QC-092611 SL -125-SA7-SB-4.0-5.0 SL -170-SA7-SB-4.0-5.0 SL -170-SA7-SB-9.0-10.0)	BARIUM	-43	14	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA7-SB-4.0-5.0 MS	ALUMINUM	1398	1258	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-125-SA7-SB-4.0-5.0 MSD	CALCIUM	332	222	75.00-125.00	-	CALCIUM	
(DUP007-SA7-QC-092611	IRON	820	766	75.00-125.00	-	IRON	
DUP008-SA7-QC-092611	MAGNESIUM	318	206	75.00-125.00	-	MAGNESIUM	
SL-125-SA7-SB-4.0-5.0	TITANIUM	289	264	75.00-125.00	-	TITANIUM	
SL-170-SA7-SB-4.0-5.0							
SL-170-SA7-SB-9.0-10.0)							

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA7-SB-4.0-5.0 MS (DUP007-SA7-QC-092611 DUP008-SA7-QC-092611 SL-125-SA7-SB-4.0-5.0 SL-170-SA7-SB-4.0-5.0 SL-170-SA7-SB-9.0-10.0)	FLUORIDE	78	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA7-SB-4.0-5.0 MSD (SL-125-SA7-SB-4.0-5.0)	BENZO(A)PYRENE	-	-	45.00-138.00	39 (30.00)	BENZO(A)PYRENE	No Qual, Diluted Out
	Di-n-octylphthalate	-	216	40.00-192.00	-	Di-n-octylphthalate	
	PYRENE	-	-	15.00-153.00	47 (30.00)	PYRENE	
SL-125-SA7-SB-4.0-5.0 MS SL-125-SA7-SB-4.0-5.0 MSD (SL-125-SA7-SB-4.0-5.0)	BENZO(B)FLUORANTHENE	-22	307	54.00-163.00	113 (30.00)	BENZO(B)FLUORANTHENE	No Qual, Diluted Out
	BIS(2-ETHYLHEXYL)PHTHALAT	0	406	39.00-167.00	200 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	Butylbenzylphthalate	0	0	57.00-173.00	-	Butylbenzylphthalate	
	CHRYSENE	-6	177	67.00-123.00	89 (30.00)	CHRYSENE	
	Diethylphthalate	0	0	70.00-136.00	-	Diethylphthalate	
	Dimethylphthalate	0	0	74.00-118.00	-	Dimethylphthalate	
SL-125-SA7-SB-4.0-5.0 MS SL-125-SA7-SB-4.0-5.0 MSD (SL-125-SA7-SB-4.0-5.0)	1-METHYLNAPHTHALENE	-	66	72.00-123.00	-	1-METHYLNAPHTHALENE	No Qual, Diluted Out
	ACENAPHTHYLENE	-	66	67.00-114.00	-	ACENAPHTHYLENE	
	ANTHRACENE	-	72	73.00-115.00	-	ANTHRACENE	
	BENZO(G,H,I)PERYLENE	23	-	33.00-141.00	37 (30.00)	BENZO(G,H,I)PERYLENE	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA7-SB-4.0-5.0 MS SL-125-SA7-SB-4.0-5.0 MSD (SL-125-SA7-SB-4.0-5.0)	2,4-DINITROTOLUENE 2-CHLORONAPHTHALENE 3-NITROANILINE 4-CHLOROANILINE ACENAPHTHYLENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALAT DIBENZO(A,H)ANTHRACENE HEXACHLOROBENZENE HEXACHLOROCYCLOPENTADI INDENO(1,2,3-CD)PYRENE	- - - - 111 - - - - 123 - - - -	- - - - - - - - - - - - -	56.00-129.00 50.00-141.00 59.00-122.00 23.00-95.00 81.00-110.00 57.00-126.00 54.00-163.00 59.00-127.00 56.00-132.00 63.00-122.00 65.00-125.00 77.00-114.00 10.00-153.00 61.00-126.00	34 (30.00) 46 (30.00) 34 (30.00) 38 (30.00) - 34 (30.00) 32 (30.00) 35 (30.00) 33 (30.00) - 35 (30.00) 33 (30.00) 52 (30.00) 33 (30.00)	2,4-DINITROTOLUENE 2-CHLORONAPHTHALENE 3-NITROANILINE 4-CHLOROANILINE ACENAPHTHYLENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALA DIBENZO(A,H)ANTHRACENE HEXACHLOROBENZENE HEXACHLOROCYCLOPENTAD INDENO(1,2,3-CD)PYRENE	J(all detects)
SL-125-SA7-SB-4.0-5.0 MS SL-125-SA7-SB-4.0-5.0 MSD (SL-125-SA7-SB-4.0-5.0)	2,4-DINITROPHENOL 3,5-Dimethylphenol ANILINE BENZIDINE BENZOIC ACID BIS(2-CHLOROISOPROPYL) ET	0 - - 14 0 0	0 0 0 0 - -	20.00-143.00 70.00-130.00 18.00-116.00 35.00-141.00 10.00-173.00 55.00-142.00	- 200 (30.00) 200 (30.00) 200 (30.00) 200 (30.00) 200 (30.00)	2,4-DINITROPHENOL 3,5-Dimethylphenol ANILINE BENZIDINE BENZOIC ACID BIS(2-CHLOROISOPROPYL) E	J(all detects) R(all non-detects)
SL-125-SA7-SB-4.0-5.0 MSD (SL-125-SA7-SB-4.0-5.0)	3,3'-DICHLOROBENZIDINE 4-CHLOROPHENYL-PHENYLET	- -	25 78	28.00-109.00 80.00-109.00	108 (30.00) -	3,3'-DICHLOROBENZIDINE 4-CHLOROPHENYL-PHENYLE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA7-SB-4.0-5.0 DUP (DUP007 -SA7-QC-092611 DUP008-SA7-QC-092611 SL -125-SA7-SB-4.0-5.0 SL -170-SA7-SB-4.0-5.0 SL -170-SA7-SB-9.0-10.0)	FLUORIDE	22	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA7-SB-4.0-5.0 DUP (DUP007 -SA7-QC-092611 DUP008-SA7-QC-092611 SL -125-SA7-SB-4.0-5.0 SL -170-SA7-SB-4.0-5.0 SL -170-SA7-SB-9.0-10.0)	Zirconium	44	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA7-SB-4.0-5.0 DUP (DUP007 -SA7-QC-092611 DUP008-SA7-QC-092611 SL -125-SA7-SB-4.0-5.0 SL -170-SA7-SB-4.0-5.0 SL -170-SA7-SB-9.0-10.0)	ANTIMONY BARIUM BERYLLIUM COBALT COPPER LEAD SELENIUM SILVER ZINC	55 27 25 22 26 23 40 21 24	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Be, Se, Ag, No Qual, OK by Difference

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA7-SB-4.0-5.0DUP (DUP007 -SA7-QC-092611 DUP008-SA7-QC-092611 SL -125-SA7-SB-4.0-5.0 SL -170-SA7-SB-4.0-5.0 SL -170-SA7-SB-9.0-10.0)	Nitrate-NO3	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27208CQ222347 (DUP007 -SA7-QC-092611 DUP008 -SA7-QC-092611 SL -125-SA7-SB-4.0-5.0 SL -170-SA7-SB-4.0-5.0 SL -170-SA7-SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM	144 136 123	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON MAGNESIUM	No Qual, SRM within QC limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA7-SB-4.0-5.0	DUP008-SA7-QC-092611			
MOISTURE	2.0	3.0	40		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA7-SB-4.0-5.0	DUP008-SA7-QC-092611			
FLUORIDE	1.6	1.7	6	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA7-SB-4.0-5.0	DUP008-SA7-QC-092611			
ALUMINUM	11500	11600	1	50.00	No Qualifiers Applied
BORON	5.22	5.05	3	50.00	
CALCIUM	3440	2570	29	50.00	
IRON	18500	18500	0	50.00	
LITHIUM	25.2	24.6	2	50.00	
MAGNESIUM	4360	4400	1	50.00	
MANGANESE	276	248	11	50.00	
PHOSPHORUS	326	360	10	50.00	
POTASSIUM	2720	2640	3	50.00	
SODIUM	65.5	68.3	4	50.00	
STRONTIUM	11.5	11.2	3	50.00	
TIN	2.41	2.35	3	50.00	
TITANIUM	1040	1030	1	50.00	
Zirconium	1.22	1.04	16	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA7-SB-4.0-5.0	DUP008-SA7-QC-092611			
ANTIMONY	0.170	0.131	26	50.00	No Qualifiers Applied
ARSENIC	4.63	5.28	13	50.00	
BARIUM	103	113	9	50.00	
BERYLLIUM	0.595	0.610	2	50.00	
CADMIUM	0.124	0.128	3	50.00	
CHROMIUM	17.6	20.7	16	50.00	
COBALT	5.98	7.32	20	50.00	
COPPER	8.11	9.30	14	50.00	
LEAD	5.24	6.44	21	50.00	
MOLYBDENUM	0.430	0.613	35	50.00	
NICKEL	11.9	14.2	18	50.00	
SELENIUM	0.171	0.127	30	50.00	
THALLIUM	0.318	0.349	9	50.00	
VANADIUM	36.3	42.5	16	50.00	
ZINC	73.9	89.8	19	50.00	
SILVER	0.0200	0.0356	56	50.00	J(all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA7-SB-4.0-5.0	DUP008-SA7-QC-092611			
HEXAVALENT CHROMIUM	1.0 U	0.37	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA7-SB-4.0-5.0	DUP008-SA7-QC-092611			
AROCLOR 1254	0.92	1.8 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA7-SB-4.0-5.0	DUP008-SA7-QC-092611			
BENZO(A)ANTHRACENE	7.6	1.4	138	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	15	2.5	143	50.00	
BENZO(B)FLUORANTHENE	51	3.3	176	50.00	
BENZO(K)FLUORANTHENE	17 U	1.5	200	50.00	
DIBENZO(A,H)ANTHRACENE	9.0	1.7 U	200	50.00	
FLUORANTHENE	17 U	0.74	200	50.00	
INDENO(1,2,3-CD)PYRENE	17 U	0.87	200	50.00	
PYRENE	10	1.0	164	50.00	

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA7-SB-4.0-5.0	DUP008-SA7-QC-092611			
PH	7.64	7.75	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-170-SA7-SB-9.0-10.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP007-SA7-QC-092611	TIN	J	2.65	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.923	5.12	PQL	mg/Kg	
DUP008-SA7-QC-092611	SODIUM	J	68.3	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.35	10.0	PQL	mg/Kg	
	Zirconium	J	1.04	5.00	PQL	mg/Kg	
SL-125-SA7-SB-4.0-5.0	SODIUM	J	65.5	98.1	PQL	mg/Kg	J (all detects)
	TIN	J	2.41	9.81	PQL	mg/Kg	
	Zirconium	J	1.22	4.91	PQL	mg/Kg	
SL-170-SA7-SB-4.0-5.0	SODIUM	J	93.2	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.47	10.1	PQL	mg/Kg	
	Zirconium	J	1.09	5.06	PQL	mg/Kg	
SL-170-SA7-SB-9.0-10.0	TIN	J	2.54	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.718	5.14	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP007-SA7-QC-092611	ANTIMONY	J	0.101	0.205	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0854	0.102	PQL	mg/Kg	
	SELENIUM	J	0.0995	0.409	PQL	mg/Kg	
	SILVER	J	0.0266	0.102	PQL	mg/Kg	
DUP008-SA7-QC-092611	ANTIMONY	J	0.131	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.400	PQL	mg/Kg	
	SILVER	J	0.0356	0.100	PQL	mg/Kg	
SL-125-SA7-SB-4.0-5.0	ANTIMONY	J	0.170	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.171	0.396	PQL	mg/Kg	
	SILVER	J	0.0200	0.0991	PQL	mg/Kg	
SL-170-SA7-SB-4.0-5.0	ANTIMONY	J	0.0865	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.120	0.401	PQL	mg/Kg	
	SILVER	J	0.0228	0.100	PQL	mg/Kg	
SL-170-SA7-SB-9.0-10.0	ANTIMONY	J	0.0852	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.122	0.411	PQL	mg/Kg	
	SILVER	J	0.0163	0.103	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE255

Laboratory: LL

EDD Filename: DE255_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP008-SA7-QC-092611	HEXAVALENT CHROMIUM	J	0.37	1.0	PQL	mg/Kg	J (all detects)
SL-170-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.44	1.0	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-170-SA7-SB-4.0-5.0	EFH (C15-C20)	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-170-SA7-SB-9.0-10.0	EFH (C12-C14)	J	0.43	1.2	PQL	mg/Kg	J (all detects)
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.8	1.2	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-125-SA7-SB-4.0-5.0	AROCLOR 1254	J	0.92	1.7	PQL	ug/Kg	J (all detects)
SL-170-SA7-SB-4.0-5.0	AROCLOR 1260	J	0.46	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-125-SA7-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	51	170	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	52	170	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP008-SA7-QC-092611	BENZO(A)ANTHRACENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.92	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.74	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.87	1.7	PQL	ug/Kg	
	PYRENE	J	1.0	1.7	PQL	ug/Kg	
SL-125-SA7-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	7.6	17	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	15	17	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	9.0	17	PQL	ug/Kg	
	PYRENE	J	10	17	PQL	ug/Kg	

LDC #: 26859Y4

VALIDATION COMPLETENESS WORKSHEET

Date: 1/4/12

SDG #: DE255

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No find by PCB/UB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti, Zn > 4X
VII.	Duplicate Sample Analysis	SW	Sb, Be, Se, Ag, Zn < 5X
VIII.	Laboratory Control Samples (LCS)	NA	SPM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Co, Cu, Pb, Ni, Zn σ/μ J
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	<i>[Handwritten mark]</i>	
XV.	Field Blanks	<i>[Handwritten mark]</i>	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SL-125-SA7-SB-4.0-5.0	11		21		31	
2	SL-170-SA7-SB-4.0-5.0	12		22		32	
3	SL-170-SA7-SB-9.0-10.0	13		23		33	
4	DUP007-SA7-QC-092611	14		24		34	
5	DUP008-SA7-QC-092611	15		25		35	
6	SL-125-SA7-SB-4.0-5.0MS	16		26		36	
7	SL-125-SA7-SB-4.0-5.0MSD	17		27		37	
8	SL-125-SA7-SB-4.0-5.0DUP	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE255
 Matrix: SOIL Level (Low/med): LOW

Background Lab Sample ID: 6419528BKG Matrix Spike Lab Sample ID: 6419529MS Matrix Spike Duplicate Lab Sample ID: 6419530MSD
 % Solids for Sample: 98.0
 Batch Id(s): P27208C, P27226C, P27211D

Analyte	Maps	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C				%R	Q	%R	Q	%R	RPD
Aluminum	121	11490.5485		14260.8926		14057.3980		198.1375	204.0816	MG/KG	1398		1258		74X	20P
Antimony	75	0.1700	B	0.9396		0.9424		1.2124	1.2124	MG/KG	63 N		64 N		75 - 125	20MS
Arsenic	137	4.6325		6.5650		6.9145		2.0206	2.0206	MG/KG	96		113		75 - 125	20MS
Barium	9	103.1108		98.8078		104.5262		10.1031	10.1031	MG/KG	-43		14		74X	20MS
Beryllium	111	0.5950		1.3811		1.3789		0.8082	0.8082	MG/KG	97		97		75 - 125	20MS
Boron	111	5.2178		200.6122		206.7551		198.1375	204.0816	MG/KG	99		99		84 - 115	20P
Cadmium	52	0.1236		1.3241		1.4437		1.0103	1.0103	MG/KG	119		131 N		75 - 125	20MS
Calcium	59	3436.4698		4752.8145		4344.6143		396.2750	408.1633	MG/KG	332		222		74X	20P
Chromium	52	17.5768		26.1871		27.6622		10.1031	10.1031	MG/KG	85		100		75 - 125	20MS
Cobalt	59	5.9838		61.8913		65.0434		50.5153	50.5153	MG/KG	111		117		75 - 125	20MS
Copper	63	8.1117		17.9673		19.3393		10.1031	10.1031	MG/KG	98		111		75 - 125	20MS
Iron	208	18471.8524		19284.2837		19253.3929		99.0688	102.0408	MG/KG	820		766		74X	20P
Lead	208	5.2388		8.1370		8.5977		3.0309	3.0309	MG/KG	96		111		75 - 125	20MS
Lithium	60	25.1776		126.8486		128.9408		99.0688	102.0408	MG/KG	103		102		82 - 114	20P
Magnesium	60	4361.3815		4990.6439		4781.1469		198.1375	204.0816	MG/KG	318		206		74X	20P
Manganese	78	276.3883		334.6483		337.6959		49.5344	51.0204	MG/KG	118		120			20P
Mercury	98	0.0069	U	0.1754		0.1693		0.1654	0.1613	MG/KG	106		105		65 - 135	20CV
Molybdenum	60	0.4300		12.2934		13.0491		10.1031	10.1031	MG/KG	117		125		75 - 125	20MS
Nickel	60	11.8645		22.0449		23.6613		10.1031	10.1031	MG/KG	101		117		75 - 125	20MS
Phosphorus	78	325.7702		436.8932		427.2255		99.0688	102.0408	MG/KG	112		99		75 - 125	20P
Potassium	107	2722.1458		3954.4551		3863.8908		990.6875	1020.4082	MG/KG	124		112		75 - 125	20P
Selenium	107	0.1713	B	2.4975		2.5924		2.0206	2.0206	MG/KG	115		120		75 - 125	20MS
Silver	107	0.0200	B	11.8812		12.5783		10.1031	10.1031	MG/KG	117		124		75 - 125	20MS
Sodium	203	65.4729	B	1056.4771		1085.8888		990.6875	1020.4082	MG/KG	100		100		75 - 125	20P
Strontium	203	11.4825		112.4430		112.9010		99.0688	102.0408	MG/KG	102		99		75 - 115	20P
Thallium	203	0.3176		0.7276		0.7842		0.4041	0.4041	MG/KG	101		115		75 - 125	20MS
Tin	203	2.4117	B	360.8569		374.1531		396.2750	408.1633	MG/KG	90		91		80 - 110	20P
Titanium	51	1038.6921		1325.0020		1307.9816		99.0688	102.0408	MG/KG	289		264		74X	20P
Vanadium	51	36.3384		42.7965		44.8575		10.1031	10.1031	MG/KG	64 N		84		75 - 125	20MS
Zinc	66	73.8657		76.0154		78.3189		10.1031	10.1031	MG/KG	21		44		74X	20MS
Zirconium	66	1.2235	B	101.5395		104.4786		99.0688	102.0408	MG/KG	101		101		75 - 125	20P

METHODS: U = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence
 CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE255

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6419528BKG
 % Solids for Duplicate: 97.8
 Batch ID(s): P27208C, P27226C, P27211D
 Concentration Units: MG/KG

Duplicate Lab Sample ID: 6419531DUP
 % Solids for Sample: 98.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			11490.5485		12010.0760		4		P
Antimony	121		0.1700	B	0.0967	B	55		MS
Arsenic	75		4.6325		3.9076		17		MS
Barium	137		103.1108		78.5114		27	*	MS
Beryllium	9	0.1	0.5950		0.4638		25	*	MS
Boron		4.9	5.2178		5.2471		1		P
Cadmium	111	0.1	0.1236		0.1079		14		MS
Calcium			3436.4698		3318.8015		3		P
Chromium	52		17.5768		14.4358		20		MS
Cobalt	59		5.9838		4.7779		22	*	MS
Copper	63		8.1117		6.2605		26	*	MS
Iron			18471.8524		18830.9834		2		P
Lead	208		5.2388		4.1437		23	*	MS
Lithium			25.1776		26.0974		4		P
Magnesium			4361.3815		4499.4038		3		P
Manganese			276.3883		267.7111		3		P
Mercury			0.0069	U	0.0071	U			CV
Molybdenum	98	0.1	0.4300		0.3904		10		MS
Nickel	60		11.8645		9.7619		19		MS
Phosphorus			325.7702		348.2403		7		P
Potassium			2722.1458		2868.8185		5		P
Selenium	78		0.1713	B	0.1144	B	40		MS
Silver	107		0.0200	B	0.0162	B	21		MS
Sodium			65.4729	B	67.3940	B	3		P
Strontium			11.4825		11.3445		1		P
Thallium	203	0.1	0.3176		0.2773		14		MS
Tin			2.4117	B	2.5040	B	4		P
Titanium			1038.6921		1104.9160		6		P
Vanadium	51		36.3384		29.6919		20		MS
Zinc	66		73.8657		57.9232		24	*	MS
Zirconium			1.2235	B	1.9148	B	44		P

OK by difference

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
 The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE255 2248

<p>METHODS:</p> <p>P = ICP Atomic Emission Spectrometer MS = ICP Mass Spectrometry CV = Cold Vapor AF = Cold Vapor Atomic Fluorescence</p>	<p>CONCENTRATION QUALIFIERS:</p> <p>U= Below MDL B= Below LOQ</p> <p>FLAGS:</p> <p>* = Duplicate Out of Spec.</p>
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QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE255

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6419528BKG

Serial Dilution Lab Sample ID: 6419528L

Batch ID(s): P27208C, P27226C

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		117111.6700		110349.7500		6		P
Antimony	121	0.8581	B	1.8500	U	100		MS
Arsenic	75	23.3800		19.1850		18		MS
Barium	137	520.4000		427.7500		18	E	MS
Beryllium	9	3.0030		2.5925		14		MS
Boron		53.1800		59.6500	B	12		P
Cadmium	111	0.6237		1.1000	U	100		MS
Calcium		35024.5000		34756.0000		1		P
Chromium	52	88.7100		81.7000		8		MS
Cobalt	59	30.2000		25.5250		15	E	MS
Copper	63	40.9400		34.9050		15	E	MS
Iron		188265.1200		182077.4500		3		P
Lead	208	26.4400		22.6850		14	E	MS
Lithium		256.6100		250.6000		2		P
Magnesium		44451.2000		43570.3500		2		P
Manganese		2816.9500		2854.5500		1		P
Molybdenum	98	2.1700		2.2545	B	4		MS
Nickel	60	59.8800		52.4500		12	E	MS
Phosphorus		3320.2500		3197.7500		4		P
Potassium		27744.1100		27050.5000		3		P
Selenium	78	0.8647	B	1.4500	U	100		MS
Silver	107	0.1008	B	0.3550	U	100		MS
Sodium		667.3000	B	654.4500	B	2		P
Strontium		117.0300		116.2000		1		P
Thallium	203	1.6030		1.3755	B	14		MS
Tin		24.5800	B	26.6500	B	8		P
Titanium		10586.3500		10792.1000		2		P
Vanadium	51	183.4000		171.1000		7		MS
Zinc	66	372.8000		308.7000		17	E	MS
Zirconium		12.4700	B	31.7000	B	154		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

U = Below MDL
B = Below LOQ

DE255 2242

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE256

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	3050B	6010B	III
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	3050B	6020	III
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	3060A	7199	III
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	3550B	8081A	III
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	3550B	8082	III
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	3550B	8151A	III
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	3550B	8270C	III
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	3550B	8270C SIM	III
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	METHOD	300.0	III
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	METHOD	314.0	III
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421297	N	METHOD	7471A	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	3050B	6010B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	3050B	6020	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	3060A	7199	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	3546	1625C	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	3550B	8015B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	3550B	8015M	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	3550B	8082	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	3550B	8270C	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	3550B	8270C SIM	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	5035	8015M	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	METHOD	300.0	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	METHOD	314.0	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	METHOD	7471A	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	METHOD	8015B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	METHOD	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421299	N	METHOD	8315A	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	3050B	6010B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	3050B	6020	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	3060A	7199	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	3546	1625C	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	3550B	8015B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	3550B	8015M	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	3550B	8082	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	3550B	8270C	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	3550B	8270C SIM	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	5035	8015M	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	METHOD	300.0	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	METHOD	314.0	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	METHOD	7471A	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	METHOD	8015B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	METHOD	8015M	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421300	MS	METHOD	8315A	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	3050B	6010B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	3050B	6020	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	3546	1625C	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	3550B	8015B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	3550B	8015M	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	3550B	8082	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	3550B	8270C	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	3550B	8270C SIM	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	5035	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	METHOD	7471A	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	METHOD	8015B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	METHOD	8015M	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421301	MSD	METHOD	8315A	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0DUP	6421302	DUP	3050B	6010B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0DUP	6421302	DUP	3050B	6020	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0DUP	6421302	DUP	3060A	7199	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0DUP	6421302	DUP	METHOD	300.0	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0DUP	6421302	DUP	METHOD	314.0	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0DUP	6421302	DUP	METHOD	7471A	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	3050B	6010B	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	3050B	6020	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	3060A	7199	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	3550B	8081A	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	3550B	8082	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	3550B	8151A	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	3550B	8270C	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	3550B	8270C SIM	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	METHOD	300.0	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	METHOD	314.0	III
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421296	N	METHOD	7471A	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	3050B	6010B	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	3050B	6020	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	3060A	7199	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	3546	1625C	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	3550B	8015M	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	3550B	8082	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	3550B	8270C	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	3550B	8270C SIM	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	5035	8015M	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	METHOD	300.0	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	METHOD	314.0	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	METHOD	7471A	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	METHOD	8015B	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	METHOD	8015M	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421311	FD	METHOD	8315A	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	3050B	6010B	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	3050B	6020	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	3060A	7199	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	3546	1625C	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	3550B	8015B	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	3550B	8015M	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	3550B	8082	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	3550B	8270C	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	3550B	8270C SIM	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	5035	8015M	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	METHOD	300.0	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	METHOD	314.0	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	METHOD	7471A	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	METHOD	8015B	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	METHOD	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421305	N	METHOD	8315A	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	3050B	6010B	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	3050B	6020	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	3060A	7199	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	3550B	8081A	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	3550B	8082	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	3550B	8151A	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	3550B	8270C	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	3550B	8270C SIM	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	METHOD	300.0	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	METHOD	314.0	III
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421295	N	METHOD	7471A	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	3050B	6010B	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	3050B	6020	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	3060A	7199	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	3546	1625C	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	3550B	8015B	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	3550B	8015M	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	3550B	8082	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	3550B	8270C	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	3550B	8270C SIM	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	5035	8015M	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	METHOD	300.0	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	METHOD	314.0	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	METHOD	7471A	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	METHOD	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	METHOD	8015M	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421309	N	METHOD	8315A	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	3050B	6010B	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	3050B	6020	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	3060A	7199	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	3550B	8081A	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	3550B	8082	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	3550B	8151A	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	3550B	8270C	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	3550B	8270C SIM	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	METHOD	300.0	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	METHOD	314.0	III
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421291	N	METHOD	7471A	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	3050B	6010B	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	3050B	6020	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	3060A	7199	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	3546	1625C	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	3550B	8015B	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	3550B	8015M	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	3550B	8082	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	3550B	8270C	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	3550B	8270C SIM	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	5035	8015M	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	METHOD	300.0	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	METHOD	314.0	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	METHOD	8015B	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	METHOD	8015M	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421310	N	METHOD	8315A	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	3050B	6010B	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	3050B	6020	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	3060A	7199	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	3550B	8081A	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	3550B	8082	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	3550B	8151A	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	3550B	8270C	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	3550B	8270C SIM	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	METHOD	300.0	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	METHOD	314.0	III
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421292	N	METHOD	7471A	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	3050B	6010B	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	3050B	6020	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	3060A	7199	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	3550B	8081A	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	3550B	8082	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	3550B	8151A	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	3550B	8270C	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	3550B	8270C SIM	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	METHOD	300.0	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	METHOD	314.0	III
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421290	N	METHOD	7471A	III
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	3050B	6010B	III

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Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	3050B	6020	III
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	3060A	7199	III
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	3550B	8081A	III
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	3550B	8082	III
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	3550B	8151A	III
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	3550B	8270C	III
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	3550B	8270C SIM	III
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	METHOD	300.0	III
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	METHOD	314.0	III
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421293	N	METHOD	7471A	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	3050B	6010B	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	3050B	6020	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	3060A	7199	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	3546	1625C	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	3550B	8015B	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	3550B	8015M	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	3550B	8082	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	3550B	8270C	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	3550B	8270C SIM	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	METHOD	300.0	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	METHOD	314.0	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	METHOD	7471A	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	METHOD	8015B	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	METHOD	8015M	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421306	N	METHOD	8315A	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	3050B	6020	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	3060A	7199	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	3546	1625C	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	3550B	8015B	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	3550B	8015M	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	3550B	8082	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	3550B	8270C	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	3550B	8270C SIM	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	METHOD	300.0	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	METHOD	314.0	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	METHOD	7471A	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	METHOD	8015B	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	METHOD	8015M	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421307	N	METHOD	8315A	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	3005A	6010B	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	3020A	6020	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	3510C	8015B	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	3510C	8015M	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	3510C	8082	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	3510C	8270C	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	3510C	8270C SIM	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	3520C	1625C	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	5030B	8015M	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	5030B	8260B	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	5030B	8260B SIM	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	8330	8330A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	Gen Prep	300.0	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	Gen Prep	314.0	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	Gen Prep	7199	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	Gen Prep	8015B	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	Gen Prep	8015M	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	METHOD	7470A	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	METHOD	8315A	III
27-Sep-2011	EB-SA7-SB-092711	6421313	EB	METHOD	9012B	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	3050B	6010B	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	3050B	6020	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	3060A	7199	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	3550B	8081A	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	3550B	8082	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	3550B	8151A	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	3550B	8270C	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	3550B	8270C SIM	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	METHOD	300.0	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	METHOD	314.0	III
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421289	N	METHOD	7471A	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	3050B	6010B	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	3050B	6020	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	3060A	7199	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	3550B	8081A	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	3550B	8082	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	3550B	8151A	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	3550B	8270C SIM	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	METHOD	300.0	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	METHOD	314.0	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421288	N	METHOD	7471A	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5DU	P421288D270805A	DUP	METHOD	314.0	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5DU	P421288D271643A	DUP	METHOD	300.0	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5MS	P421288R270828A	MS	METHOD	314.0	III
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5MS	P421288R271655A	MS	METHOD	300.0	III
27-Sep-2011	TB-092711	6421312	TB	5030B	8015M	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	3050B	6010B	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	3050B	6020	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	3060A	7199	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	3550B	8081A	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	3550B	8082	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	3550B	8151A	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	3550B	8270C	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	3550B	8270C SIM	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	METHOD	300.0	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	METHOD	314.0	III
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421294	N	METHOD	7471A	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	3050B	6010B	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	3050B	6020	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	3060A	7199	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	3546	1625C	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	3550B	8015B	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	3550B	8082	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	3550B	8270C	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	3550B	8270C SIM	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	5035	8015M	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	METHOD	300.0	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	METHOD	314.0	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	METHOD	7471A	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	METHOD	8015B	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	METHOD	8015M	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421308	N	METHOD	8315A	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	3050B	6010B	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	3050B	6020	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	3060A	7199	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	3550B	8081A	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	3550B	8082	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	3550B	8151A	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	3550B	8270C	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	3550B	8270C SIM	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	METHOD	300.0	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	METHOD	314.0	III
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421298	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: DUP-09-SA7-QC-092711	Collected: 9/27/2011 8:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	0.84	U	0.84	MDL	1.6	PQL	mg/Kg	UJ	FD

Sample ID: SL-004-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 2:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 1:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 11:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-019-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 10:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-020-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 11:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-021-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 11:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.82	MDL	1.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 300.0 **Matrix:** SO

Sample ID: SL-022-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 2:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-023-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 9:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 8:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-025-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 7:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 3:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA7-SB-4.0-5.0 **Collected:** 9/27/2011 8:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.84	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.7		0.84	MDL	1.6	PQL	mg/Kg	J	FD

Sample ID: SL-103-SA7-SB-9.0-10.0 **Collected:** 9/27/2011 8:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.88	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-104-SA7-SB-4.0-5.0		Collected: 9/27/2011 12:35:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-104-SA7-SB-9.0-10.0		Collected: 9/27/2011 12:45:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-105-SA7-SB-4.0-5.0		Collected: 9/27/2011 2:45:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.81	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.96	J	0.81	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA7-SB-4.0-5.0		Collected: 9/27/2011 10:35:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-172-SA7-SB-9.0-10.0		Collected: 9/27/2011 10:45:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.5		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA7-SB-092711		Collected: 9/27/2011 1:00:00		Analysis Type: REA2		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0039	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z
STRONTIUM	0.00023	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: DUP-09-SA7-QC-092711 Collected: 9/27/2011 8:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4210		2.48	MDL	19.8	PQL	mg/Kg	J	E
SODIUM	81.8	J	5.90	MDL	99.1	PQL	mg/Kg	J	Z
STRONTIUM	17.9		0.0248	MDL	0.496	PQL	mg/Kg	J	E
TIN	0.615	J	0.317	MDL	9.91	PQL	mg/Kg	U	B
Zirconium	1.13	J	0.456	MDL	4.96	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3540		2.52	MDL	20.1	PQL	mg/Kg	J	E
SODIUM	93.6	J	5.99	MDL	101	PQL	mg/Kg	J	Z
STRONTIUM	20.1		0.0252	MDL	0.504	PQL	mg/Kg	J	E
TIN	1.04	J	0.322	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-005-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 1:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3540		2.51	MDL	20.1	PQL	mg/Kg	J	E
SODIUM	91.1	J	5.98	MDL	101	PQL	mg/Kg	J	Z
STRONTIUM	20.9		0.0251	MDL	0.503	PQL	mg/Kg	J	E
TIN	1.06	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.56	J	0.462	MDL	5.03	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 11:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3840		2.42	MDL	19.4	PQL	mg/Kg	J	E
SODIUM	85.9	J	5.77	MDL	97.0	PQL	mg/Kg	J	Z
STRONTIUM	24.4		0.0242	MDL	0.485	PQL	mg/Kg	J	E
TIN	0.816	J	0.310	MDL	9.70	PQL	mg/Kg	U	B

Sample ID: SL-019-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3250		2.49	MDL	19.9	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-019-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 10:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	86.7	J	5.93	MDL	99.7	PQL	mg/Kg	J	Z
STRONTIUM	20.2		0.0249	MDL	0.499	PQL	mg/Kg	J	E
TIN	0.959	J	0.319	MDL	9.97	PQL	mg/Kg	U	B

Sample ID: SL-020-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 11:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3440		2.49	MDL	19.9	PQL	mg/Kg	J	E
SODIUM	88.1	J	5.92	MDL	99.4	PQL	mg/Kg	J	Z
STRONTIUM	21.4		0.0249	MDL	0.497	PQL	mg/Kg	J	E
TIN	0.969	J	0.318	MDL	9.94	PQL	mg/Kg	U	B

Sample ID: SL-021-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 11:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3510		2.47	MDL	19.7	PQL	mg/Kg	J	E
SODIUM	91.3	J	5.87	MDL	98.7	PQL	mg/Kg	J	Z
STRONTIUM	23.6		0.0247	MDL	0.493	PQL	mg/Kg	J	E
TIN	1.08	J	0.316	MDL	9.87	PQL	mg/Kg	U	B
Zirconium	4.06	J	0.454	MDL	4.93	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 2:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3560		2.52	MDL	20.2	PQL	mg/Kg	J	E
SODIUM	83.9	J	6.00	MDL	101	PQL	mg/Kg	J	Z
STRONTIUM	23.1		0.0252	MDL	0.504	PQL	mg/Kg	J	E
TIN	1.03	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-023-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 9:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3610		2.52	MDL	20.2	PQL	mg/Kg	J	E
SODIUM	98.7	J	6.01	MDL	101	PQL	mg/Kg	J	Z
STRONTIUM	21.9		0.0252	MDL	0.505	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-023-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 9:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.04	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-024-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 8:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4600		2.52	MDL	20.1	PQL	mg/Kg	J	E
STRONTIUM	20.5		0.0252	MDL	0.503	PQL	mg/Kg	J	E
TIN	0.857	J	0.322	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-025-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 7:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4700		2.53	MDL	20.2	PQL	mg/Kg	J	E
SODIUM	98.2	J	6.01	MDL	101	PQL	mg/Kg	J	Z
STRONTIUM	21.3		0.0253	MDL	0.505	PQL	mg/Kg	J	E
TIN	1.01	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-038-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	14300		2.47	MDL	19.8	PQL	mg/Kg	J	E
SODIUM	85.8	J	5.88	MDL	98.8	PQL	mg/Kg	J	Z
STRONTIUM	41.1		0.0247	MDL	0.494	PQL	mg/Kg	J	E
TIN	0.592	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	4.84	J	0.455	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA7-SB-4.0-5.0 Collected: 9/27/2011 8:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5170		2.57	MDL	20.6	PQL	mg/Kg	J	E
STRONTIUM	26.2		0.0257	MDL	0.514	PQL	mg/Kg	J	E
TIN	0.840	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.38	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-103-SA7-SB-9.0-10.0	Collected: 9/27/2011 8:55:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3320		2.65	MDL	21.2	PQL	mg/Kg	J	E
STRONTIUM	14.7		0.0265	MDL	0.529	PQL	mg/Kg	J	E
TIN	0.721	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	0.905	J	0.487	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA7-SB-4.0-5.0	Collected: 9/27/2011 12:35:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3870		2.54	MDL	20.3	PQL	mg/Kg	J	E
SODIUM	82.2	J	6.04	MDL	101	PQL	mg/Kg	J	Z
STRONTIUM	17.4		0.0254	MDL	0.507	PQL	mg/Kg	J	E
TIN	0.751	J	0.325	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.40	J	0.467	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA7-SB-9.0-10.0	Collected: 9/27/2011 12:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4070		2.65	MDL	21.2	PQL	mg/Kg	J	E
STRONTIUM	18.2		0.0265	MDL	0.531	PQL	mg/Kg	J	E
TIN	0.916	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.06	J	0.488	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA7-SB-4.0-5.0	Collected: 9/27/2011 2:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3260		2.56	MDL	20.5	PQL	mg/Kg	J	E
SODIUM	71.3	J	6.09	MDL	102	PQL	mg/Kg	J	Z
STRONTIUM	14.1		0.0256	MDL	0.511	PQL	mg/Kg	J	E
TIN	1.02	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	0.965	J	0.471	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA7-SB-4.0-5.0	Collected: 9/27/2011 10:35:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7950		2.61	MDL	20.9	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-172-SA7-SB-4.0-5.0 Collected: 9/27/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	43.5		0.0261	MDL	0.521	PQL	mg/Kg	J	E
TIN	0.895	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.55	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA7-SB-9.0-10.0 Collected: 9/27/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3920		2.73	MDL	21.8	PQL	mg/Kg	J	E
STRONTIUM	17.6		0.0273	MDL	0.545	PQL	mg/Kg	J	E
TIN	0.941	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.23	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: AQ

Sample ID: EB-SA7-SB-092711 Collected: 9/27/2011 1:00:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00013	J	0.00008 0	MDL	0.0010	PQL	mg/L	U	B

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP-09-SA7-QC-092711 Collected: 9/27/2011 8:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.139	J	0.0580	MDL	0.400	PQL	mg/Kg	J	Z

Sample ID: DUP-09-SA7-QC-092711 Collected: 9/27/2011 8:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0740	U	0.0740	MDL	0.200	PQL	mg/Kg	UJ	Q, FD
CADMIUM	0.0950	J	0.0440	MDL	0.100	PQL	mg/Kg	J	Z
SILVER	0.0142	U	0.0142	MDL	0.100	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-004-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 2:15:00		Analysis Type: REA		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.350	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 2:15:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0745	MDL	0.201	PQL	mg/Kg	J	Z, Q
SILVER	0.0252	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 1:50:00		Analysis Type: REA		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.244	J	0.0561	MDL	0.387	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 1:50:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.112	J	0.0715	MDL	0.193	PQL	mg/Kg	J	Z, Q
SILVER	0.0236	J	0.0137	MDL	0.0967	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 11:30:00		Analysis Type: REA		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.178	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 11:30:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q
SILVER	0.0282	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 10:45:00		Analysis Type: REA		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-019-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 10:45:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0922	J	0.0745	MDL	0.201	PQL	mg/Kg	J	Z, Q
SILVER	0.0210	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 11:10:00		Analysis Type: REA		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 11:10:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.107	J	0.0751	MDL	0.203	PQL	mg/Kg	J	Z, Q
SILVER	0.0708	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 11:50:00		Analysis Type: REA		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.170	J	0.0572	MDL	0.395	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 11:50:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.100	J	0.0730	MDL	0.197	PQL	mg/Kg	J	Z, Q
SILVER	0.0207	J	0.0140	MDL	0.0987	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 2:40:00		Analysis Type: REA		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.217	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 2:40:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.108	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q
SILVER	0.0204	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-023-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 9:15:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.259	J	0.0585	MDL	0.404	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 9:15:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.111	J	0.0747	MDL	0.202	PQL	mg/Kg	J	Z, Q
SILVER	0.0152	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 8:45:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.170	J	0.0578	MDL	0.399	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 8:45:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.119	J	0.0737	MDL	0.199	PQL	mg/Kg	J	Z, Q
SILVER	0.0169	J	0.0141	MDL	0.0996	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 7:30:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.188	J	0.0564	MDL	0.389	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 7:30:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.133	J	0.0719	MDL	0.194	PQL	mg/Kg	J	Z, Q
SILVER	0.0162	J	0.0138	MDL	0.0972	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 3:00:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.292	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-038-SA5DS-SS-0.0-0.5			Collected: 9/27/2011 3:00:00			Analysis Type: RES			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.122	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q	
SILVER	0.0234	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z	

Sample ID: SL-103-SA7-SB-4.0-5.0			Collected: 9/27/2011 8:40:00			Analysis Type: REA			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.160	J	0.0608	MDL	0.419	PQL	mg/Kg	J	Z	

Sample ID: SL-103-SA7-SB-4.0-5.0			Collected: 9/27/2011 8:40:00			Analysis Type: RES			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.0944	J	0.0776	MDL	0.210	PQL	mg/Kg	J	Z, Q, FD	
CADMIUM	0.0906	J	0.0461	MDL	0.105	PQL	mg/Kg	J	Z	
SILVER	0.0234	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, FD	

Sample ID: SL-103-SA7-SB-9.0-10.0			Collected: 9/27/2011 8:55:00			Analysis Type: REA			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.113	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z	

Sample ID: SL-103-SA7-SB-9.0-10.0			Collected: 9/27/2011 8:55:00			Analysis Type: RES			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.0807	U	0.0807	MDL	0.218	PQL	mg/Kg	UJ	Q	
CADMIUM	0.0962	J	0.0480	MDL	0.109	PQL	mg/Kg	J	Z	
SILVER	0.0182	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z	

Sample ID: SL-104-SA7-SB-4.0-5.0			Collected: 9/27/2011 12:35:00			Analysis Type: REA			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
SELENIUM	0.135	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z	

Sample ID: SL-104-SA7-SB-4.0-5.0			Collected: 9/27/2011 12:35:00			Analysis Type: RES			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.0751	U	0.0751	MDL	0.203	PQL	mg/Kg	UJ	Q	

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-104-SA7-SB-4.0-5.0 Collected: 9/27/2011 12:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0978	J	0.0446	MDL	0.101	PQL	mg/Kg	J	Z
SILVER	0.0200	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA7-SB-9.0-10.0 Collected: 9/27/2011 12:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0610	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA7-SB-9.0-10.0 Collected: 9/27/2011 12:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0778	U	0.0778	MDL	0.210	PQL	mg/Kg	UJ	Q
CADMIUM	0.102	J	0.0462	MDL	0.105	PQL	mg/Kg	J	Z
SILVER	0.0221	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA7-SB-4.0-5.0 Collected: 9/27/2011 2:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.142	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA7-SB-4.0-5.0 Collected: 9/27/2011 2:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0764	U	0.0764	MDL	0.207	PQL	mg/Kg	UJ	Q
CADMIUM	0.0921	J	0.0455	MDL	0.103	PQL	mg/Kg	J	Z
SILVER	0.0154	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA7-SB-4.0-5.0 Collected: 9/27/2011 10:35:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0623	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA7-SB-4.0-5.0 Collected: 9/27/2011 10:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.377		0.0795	MDL	0.215	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-172-SA7-SB-4.0-5.0	Collected: 9/27/2011 10:35:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0248	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA7-SB-9.0-10.0	Collected: 9/27/2011 10:45:00	Analysis Type: REA	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.126	J	0.0620	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA7-SB-9.0-10.0	Collected: 9/27/2011 10:45:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0791	U	0.0791	MDL	0.214	PQL	mg/Kg	UJ	Q
SILVER	0.0224	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-004-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 2:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.97	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 1:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.92	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 11:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.65	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 2:40:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-024-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 8:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 7:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.86	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7470A	Matrix: AQ

Sample ID: EB-SA7-SB-092711	Collected: 9/27/2011 1:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000045	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: DUP-09-SA7-QC-092711	Collected: 9/27/2011 8:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0079	J	0.0071	MDL	0.101	PQL	mg/Kg	UJ	F, FD

Sample ID: SL-004-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 2:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0103	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 1:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	J	0.0066	MDL	0.0945	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-006-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 11:30:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0109	J	0.0068	MDL	0.0963	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 10:45:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0135	J	0.0070	MDL	0.0991	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 11:10:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0088	J	0.0067	MDL	0.0959	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 11:50:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0115	J	0.0068	MDL	0.0972	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 2:40:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0193	J	0.0070	MDL	0.0997	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 9:15:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0118	J	0.0068	MDL	0.0967	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 8:45:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0098	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 7:30:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0098	J	0.0068	MDL	0.0963	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-038-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0877	J	0.0069	MDL	0.0977	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA7-SB-4.0-5.0 Collected: 9/27/2011 8:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0071	U	0.0071	MDL	0.101	PQL	mg/Kg	UJ	FD

Sample ID: SL-172-SA7-SB-4.0-5.0 Collected: 9/27/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0079	J	0.0074	MDL	0.105	PQL	mg/Kg	U	F

Sample ID: SL-172-SA7-SB-9.0-10.0 Collected: 9/27/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0490	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 1625C **Matrix:** AQ

Sample ID: EB-SA7-SB-092711 Collected: 9/27/2011 1:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.23		0.532	MDL	1.06	PQL	ng/L	UJ	B, S

Method Category: SVOA
Method: 8015M **Matrix:** SO

Sample ID: DUP-09-SA7-QC-092711 Collected: 9/27/2011 8:45:00 Analysis Type: REA2 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.1	U	2.1	MDL	6.2	PQL	mg/Kg	UJ	FD
EFH (C21-C30)	17		2.1	MDL	6.2	PQL	mg/Kg	J	FD
EFH (C30-C40)	60		2.1	MDL	6.2	PQL	mg/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8015M	Matrix:	SO
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Sample ID: SL-103-SA7-SB-4.0-5.0		Collected: 9/27/2011 8:40:00		Analysis Type: REA		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-103-SA7-SB-4.0-5.0		Collected: 9/27/2011 8:40:00		Analysis Type: REA2		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.60	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z, FD
EFH (C21-C30)	8.7		0.42	MDL	1.3	PQL	mg/Kg	J	Q, Q, Q, FD
EFH (C30-C40)	24		0.42	MDL	1.3	PQL	mg/Kg	J	FD

Sample ID: SL-103-SA7-SB-9.0-10.0		Collected: 9/27/2011 8:55:00		Analysis Type: REA2		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.44	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA7-SB-4.0-5.0		Collected: 9/27/2011 12:35:00		Analysis Type: REA		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.53	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA7-SB-4.0-5.0		Collected: 9/27/2011 2:45:00		Analysis Type: REA2		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.45	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Method Category:	SVOA	Method:	8081A	Matrix:	SO
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Sample ID: SL-006-SA5DS-SS-0.0-0.5		Collected: 9/27/2011 11:30:00		Analysis Type: RES-BASE/NEUTRAL		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.0		0.067	MDL	0.35	PQL	ug/Kg	J	S
4,4'-DDT	0.63		0.067	MDL	0.35	PQL	ug/Kg	J	S
Chlordane	3.8		0.81	MDL	3.5	PQL	ug/Kg	J	S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8081A	Matrix:	SO
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Sample ID: SL-019-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 10:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.23	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.086	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 11:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.9	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 11:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.6	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
TOXAPHENE	2.6	J	2.2	MDL	6.7	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 2:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.046	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z
ENDRIN KETONE	0.097	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 9:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
4,4'-DDE	0.25	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z, S
4,4'-DDT	0.38		0.067	MDL	0.35	PQL	ug/Kg	J	S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	1.8	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, S
DELTA-BHC	0.037	U	0.037	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8081A	Matrix:	SO
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Sample ID: SL-023-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 9:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.075	U	0.075	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	UJ	S

Sample ID: SL-025-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 7:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.079	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z
Chlordane	2.5	J	0.81	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.1	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: DUP-09-SA7-QC-092711 Collected: 9/27/2011 8:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.41	U	0.41	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-004-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 2:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.51	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	0.67	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.2	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-006-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 11:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.0	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.9	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 10:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.52	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 11:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	0.87	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.0	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 11:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.89	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	0.71	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.6	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 2:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, S
AROCLOR 1260	0.97	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, S
Aroclor 5460	2.0	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S

Sample ID: SL-023-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 9:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.64	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, S
AROCLOR 1260	0.75	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-023-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 9:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.6	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S

Sample ID: SL-024-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 8:45:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.89	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-025-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 7:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.3	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DS-SS-0.0-0.5	Collected: 9/27/2011 3:00:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	0.72	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA7-SB-4.0-5.0	Collected: 9/27/2011 8:40:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.47	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z, S, FD

Sample ID: SL-104-SA7-SB-4.0-5.0	Collected: 9/27/2011 12:35:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.90	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-104-SA7-SB-9.0-10.0	Collected: 9/27/2011 12:45:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.47	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Matrix:	SO
Method:	8082		

Sample ID: SL-105-SA7-SB-4.0-5.0 Collected: 9/27/2011 2:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.75	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA7-SB-4.0-5.0 Collected: 9/27/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.76	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z

Method Category:	SVOA	Matrix:	SO
Method:	8151A		

Sample ID: SL-006-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 11:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	2.0	J	1.2	MDL	3.7	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 11:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.13	J	0.076	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.090	J	0.077	MDL	0.17	PQL	ug/Kg	J	Z
DICAMBA	0.61	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DICHLOROPROP	1.6	J	0.82	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Method Category:	SVOA	Matrix:	AQ
Method:	8270C		

Sample ID: EB-SA7-SB-092711 Collected: 9/27/2011 1:00:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	7	U	7	MDL	17	PQL	ug/L	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C **Matrix:** AQ

Method Category: SVOA
Method: 8270C **Matrix:** SO

Sample ID: DUP-09-SA7-QC-092711 **Collected:** 9/27/2011 8:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	35	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 1:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 11:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	51	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 8:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA7-SB-4.0-5.0 **Collected:** 9/27/2011 8:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	UJ	Q
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	R	Q

Method Category: SVOA
Method: 8270C SIM **Matrix:** AQ

Sample ID: EB-SA7-SB-092711 **Collected:** 9/27/2011 1:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.13	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Diethylphthalate	0.36	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.79	J	0.055	MDL	1.1	PQL	ug/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: AQ

Sample ID: EB-SA7-SB-092711 Collected: 9/27/2011 1:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	0.11	J	0.055	MDL	1.1	PQL	ug/L	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: DUP-09-SA7-QC-092711 Collected: 9/27/2011 8:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.76	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	FD
CHRYSENE	1.5	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD
PYRENE	1.5	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-004-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.78	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.81	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.0	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 1:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.76	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.71	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-006-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 11:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.78	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.73	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 10:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.36	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 11:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.76	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.71	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.6	J	6.1	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 11:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.1	J	6.1	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	0.93	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.98	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.76	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.86	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-022-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 2:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	10	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.89	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.87	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 9:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.5	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.90	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	J	6.1	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 8:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.71	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.79	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.70	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-025-SA5DS-SS-0.0-0.5 **Collected:** 9/27/2011 7:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.6	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.74	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-025-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 7:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DS-SS-0.0-0.5 Collected: 9/27/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.2	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.78	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.92	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.89	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA7-SB-4.0-5.0 Collected: 9/27/2011 8:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	FD
BIS(2-ETHYLHEXYL)PHTHALATE	55		6.2	MDL	19	PQL	ug/Kg	J	Q, FD
CHRYSENE	0.48	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	FD
PYRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	FD

Sample ID: SL-103-SA7-SB-9.0-10.0 Collected: 9/27/2011 8:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.91	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-104-SA7-SB-4.0-5.0 Collected: 9/27/2011 12:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.3	J	6.2	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.76	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.98	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-104-SA7-SB-9.0-10.0 Collected: 9/27/2011 12:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.72	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-105-SA7-SB-4.0-5.0 Collected: 9/27/2011 2:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.87	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA7-SB-4.0-5.0 Collected: 9/27/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.50	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA7-SB-9.0-10.0 Collected: 9/27/2011 10:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA
Method: 8330A **Matrix:** AQ

Sample ID: EB-SA7-SB-092711 Collected: 9/27/2011 1:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	L

Method Category: VOA
Method: 8260B **Matrix:** AQ

Sample ID: EB-SA7-SB-092711 Collected: 9/27/2011 1:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	3	J	2	MDL	5	PQL	ug/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

EDD Filename: PrepDE256_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE256

Field Duplicate RPD Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-103-SA7-SB-4.0-5.0	DUP-09-SA7-QC-092711			
MOISTURE	4.6	3.9	16		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-103-SA7-SB-4.0-5.0	DUP-09-SA7-QC-092711			
FLUORIDE	3.7	2.4	43	50.00	No Qualifiers Applied
Nitrate-NO3	1.7	1.6 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-103-SA7-SB-4.0-5.0	DUP-09-SA7-QC-092711			
ALUMINUM	13700	14100	3	50.00	No Qualifiers Applied
BORON	6.93	6.69	4	50.00	
CALCIUM	5170	4210	20	50.00	
IRON	18300	18700	2	50.00	
LITHIUM	23.5	24.0	2	50.00	
MAGNESIUM	4200	4320	3	50.00	
MANGANESE	259	255	2	50.00	
PHOSPHORUS	356	378	6	50.00	
POTASSIUM	2670	2720	2	50.00	
SODIUM	103	81.8	23	50.00	
STRONTIUM	26.2	17.9	38	50.00	
TIN	0.840	0.615	31	50.00	
TITANIUM	1050	1140	8	50.00	
Zirconium	1.38	1.13	20	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-103-SA7-SB-4.0-5.0	DUP-09-SA7-QC-092711			
ARSENIC	3.85	3.84	0	50.00	No Qualifiers Applied
BARIUM	76.5	76.0	1	50.00	
BERYLLIUM	0.500	0.425	16	50.00	
CADMIUM	0.0906	0.0950	5	50.00	
CHROMIUM	15.1	14.4	5	50.00	
COBALT	4.75	4.59	3	50.00	
COPPER	7.14	7.00	2	50.00	
LEAD	4.80	4.51	6	50.00	
MOLYBDENUM	0.615	0.445	32	50.00	
NICKEL	9.34	9.02	3	50.00	
SELENIUM	0.160	0.139	14	50.00	
THALLIUM	0.240	0.258	7	50.00	
VANADIUM	30.5	31.5	3	50.00	
ZINC	52.9	50.8	4	50.00	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: PrepDE256_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020					
Matrix: SO					
ANTIMONY	0.0944	0.200 U	200	50.00	J(all detects)
SILVER	0.0234	0.100 U	200	50.00	UJ(all non-detects)

Method: 7471A					
Matrix: SO					
Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-103-SA7-SB-4.0-5.0	DUP-09-SA7-QC-092711			
MERCURY	0.101 U	0.0079	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M					
Matrix: SO					
Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-103-SA7-SB-4.0-5.0	DUP-09-SA7-QC-092711			
EFH (C15-C20)	0.60	6.2 U	200	50.00	J(all detects) UJ(all non-detects)
EFH (C21-C30)	8.7	17	65	50.00	
EFH (C30-C40)	24	60	86	50.00	

Method: 8082					
Matrix: SO					
Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-103-SA7-SB-4.0-5.0	DUP-09-SA7-QC-092711			
AROCLOR 1260	0.47	1.8 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM					
Matrix: SO					
Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-103-SA7-SB-4.0-5.0	DUP-09-SA7-QC-092711			
BENZO(B)FLUORANTHENE	2.1	2.4	13	50.00	No Qualifiers Applied
BENZO(A)ANTHRACENE	1.7 U	0.76	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	1.7 U	1.0	200	50.00	
BENZO(G,H,I)PERYLENE	1.7 U	1.0	200	50.00	
BIS(2-ETHYLHEXYL)PHTHALATE	55	19 U	200	50.00	
CHRYSENE	0.48	1.5	103	50.00	
FLUORANTHENE	1.7 U	1.0	200	50.00	
PYRENE	1.7 U	1.5	200	50.00	

Method: 9045M					
Matrix: SO					
Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-103-SA7-SB-4.0-5.0	DUP-09-SA7-QC-092711			
PH	8.37	8.32	1	50.00	No Qualifiers Applied

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA26B261601	10/3/2011 4:01:00 PM	N-NITROSODIMETHYLAMINE	1.47 ng/L	EB-SA7-SB-092711

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-092711(RES)	N-NITROSODIMETHYLAMINE	3.23 ng/L	3.23U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27848CB222339	10/9/2011 11:39:00 PM	STRONTIUM	0.00022 mg/L	EB-SA7-SB-092711

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-092711(REA2)	STRONTIUM	0.00023 mg/L	0.00023U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27208AB220108	10/11/2011 1:08:00 AM	ALUMINUM	8.39 mg/Kg	DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27208AB220759	10/10/2011 7:59:00 AM	CALCIUM MANGANESE PHOSPHORUS STRONTIUM TIN	7.16 mg/Kg 0.0466 mg/Kg 1.24 mg/Kg 0.0262 mg/Kg 1.35 mg/Kg	DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-09-SA7-QC-092711(RES)	TIN	0.615 mg/Kg	0.615U mg/Kg
SL-004-SA5DS-SS-0.0-0.5(RES)	TIN	1.04 mg/Kg	1.04U mg/Kg
SL-005-SA5DS-SS-0.0-0.5(RES)	TIN	1.06 mg/Kg	1.06U mg/Kg
SL-006-SA5DS-SS-0.0-0.5(RES)	TIN	0.816 mg/Kg	0.816U mg/Kg
SL-019-SA5DS-SS-0.0-0.5(RES)	TIN	0.959 mg/Kg	0.959U mg/Kg
SL-020-SA5DS-SS-0.0-0.5(RES)	TIN	0.969 mg/Kg	0.969U mg/Kg
SL-021-SA5DS-SS-0.0-0.5(RES)	TIN	1.08 mg/Kg	1.08U mg/Kg
SL-022-SA5DS-SS-0.0-0.5(RES)	TIN	1.03 mg/Kg	1.03U mg/Kg
SL-023-SA5DS-SS-0.0-0.5(RES)	TIN	1.04 mg/Kg	1.04U mg/Kg
SL-024-SA5DS-SS-0.0-0.5(RES)	TIN	0.857 mg/Kg	0.857U mg/Kg
SL-025-SA5DS-SS-0.0-0.5(RES)	TIN	1.01 mg/Kg	1.01U mg/Kg
SL-038-SA5DS-SS-0.0-0.5(RES)	TIN	0.592 mg/Kg	0.592U mg/Kg
SL-103-SA7-SB-4.0-5.0(RES)	TIN	0.840 mg/Kg	0.840U mg/Kg
SL-103-SA7-SB-9.0-10.0(RES)	TIN	0.721 mg/Kg	0.721U mg/Kg
SL-104-SA7-SB-4.0-5.0(RES)	TIN	0.751 mg/Kg	0.751U mg/Kg
SL-104-SA7-SB-9.0-10.0(RES)	TIN	0.916 mg/Kg	0.916U mg/Kg
SL-105-SA7-SB-4.0-5.0(RES)	TIN	1.02 mg/Kg	1.02U mg/Kg
SL-172-SA7-SB-4.0-5.0(RES)	TIN	0.895 mg/Kg	0.895U mg/Kg
SL-172-SA7-SB-9.0-10.0(RES)	TIN	0.941 mg/Kg	0.941U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27226AB222155A	9/29/2011 9:55:00 PM	COPPER LEAD	0.0875 mg/Kg 0.0645 mg/Kg	DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27813AB220856	10/6/2011 8:56:00 AM	MERCURY	0.000042 mg/L	EB-SA7-SB-092711

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-092711(RES)	MERCURY	0.000045 mg/L	0.000045U mg/L

Method: 8151A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P78786AB241039A	10/7/2011 10:39:00 AM	MCPP	130 ug/Kg	SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5
P83832AB241715A	10/12/2011 5:15:00 PM	2,4,5-T	0.10 ug/Kg	SL-038-SA5DS-SS-0.0-0.5

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-103-SA7-SB-4.0-5.0MS SL-103-SA7-SB-4.0-5.0MSD (SL-103-SA7-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	12 49 55	16 55 59	59.00-109.00 63.00-107.00 63.00-107.00	28 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)
SL-103-SA7-SB-4.0-5.0MS SL-103-SA7-SB-4.0-5.0MSD (SL-103-SA7-SB-4.0-5.0)	EFH (C21-C30) EFH (C30-C40)	-50 -175	35 -220	49.00-123.00 49.00-123.00	22 (20.00) -	EFH (C21-C30) EFH (C30-C40)	J(all detects) R(all non-detects) EFH (C30-C40), No Qual >4x

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-103-SA7-SB-4.0-5.0MS SL-103-SA7-SB-4.0-5.0MSD (DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0)	ANTIMONY	35	30	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-103-SA7-SB-4.0-5.0MSD (DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0)	BARIUM	-	154	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-103-SA7-SB-4.0-5.0MS SL-103-SA7-SB-4.0-5.0MSD (DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0)	ALUMINUM MAGNESIUM	361 -	988 279	75.00-125.00 75.00-125.00	- -	ALUMINUM MAGNESIUM	No Qual, >4x
SL-103-SA7-SB-4.0-5.0MS SL-103-SA7-SB-4.0-5.0MSD (DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0)	CALCIUM IRON	-278 -889	-149 837	75.00-125.00 75.00-125.00	- -	CALCIUM IRON	No Qual, >4x
SL-103-SA7-SB-4.0-5.0MS (DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0)	MANGANESE	54	-	75.00-125.00	-	MANGANESE	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-004-SA5DS-SS-0.0-0.5MS (SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5)	FLUORIDE	44	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-103-SA7-SB-4.0-5.0MS (DUP-09-SA7-QC-092711 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0)	FLUORIDE	61	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-103-SA7-SB-4.0-5.0MSD (SL-103-SA7-SB-4.0-5.0)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE	- - -	- - -	20.00-143.00 28.00-109.00 23.00-95.00	56 (30.00) 43 (30.00) 42 (30.00)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE	J(all detects)
SL-103-SA7-SB-4.0-5.0MSD (SL-103-SA7-SB-4.0-5.0)	BENZOIC ACID	-	0	10.00-173.00	200 (30.00)	BENZOIC ACID	J(all detects) R(all non-detects)
SL-103-SA7-SB-4.0-5.0MS SL-103-SA7-SB-4.0-5.0MSD (SL-103-SA7-SB-4.0-5.0)	BENZIDINE	21	25	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-103-SA7-SB-4.0-5.0MSD (SL-103-SA7-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	-	277	48.00-113.00	105 (30.00)	N-NITROSODIMETHYLAMINE	J(all detects)
SL-103-SA7-SB-4.0-5.0MS SL-103-SA7-SB-4.0-5.0MSD (SL-103-SA7-SB-4.0-5.0)	BIS(2-ETHYLHEXYL)PHTHALAT	-27	-39	39.00-167.00	-	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-103-SA7-SB-4.0-5.0MS (SL-103-SA7-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	134	-	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-103-SA7-SB-4.0-5.0MS SL-103-SA7-SB-4.0-5.0MSD (DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0)	TITANIUM	205	230	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-103-SA7-SB-4.0-5.0DUP (DUP-09-SA7-QC-092711 SL -038-SA5DS-SS-0.0-0.5 SL -103-SA7-SB-4.0-5.0 SL -103-SA7-SB-9.0-10.0 SL -104-SA7-SB-4.0-5.0 SL -104-SA7-SB-9.0-10.0 SL -105-SA7-SB-4.0-5.0 SL -172-SA7-SB-4.0-5.0 SL -172-SA7-SB-9.0-10.0)	Nitrate-NO3	28	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-103-SA7-SB-4.0-5.0DUP (DUP-09-SA7-QC-092711 SL -004-SA5DS-SS-0.0-0.5 SL -005-SA5DS-SS-0.0-0.5 SL -006-SA5DS-SS-0.0-0.5 SL -019-SA5DS-SS-0.0-0.5 SL -020-SA5DS-SS-0.0-0.5 SL -021-SA5DS-SS-0.0-0.5 SL -022-SA5DS-SS-0.0-0.5 SL -023-SA5DS-SS-0.0-0.5 SL -024-SA5DS-SS-0.0-0.5 SL -025-SA5DS-SS-0.0-0.5 SL -038-SA5DS-SS-0.0-0.5 SL -103-SA7-SB-4.0-5.0 SL -103-SA7-SB-9.0-10.0 SL -104-SA7-SB-4.0-5.0 SL -104-SA7-SB-9.0-10.0 SL -105-SA7-SB-4.0-5.0 SL -172-SA7-SB-4.0-5.0 SL -172-SA7-SB-9.0-10.0)	CALCIUM STRONTIUM Zirconium	38 47 42	20.00 20.00 20.00	J(all detects) UJ(all non-detects) Zr, No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-103-SA7-SB-4.0-5.0DUP (DUP-09-SA7-QC-092711)	ANTIMONY	200	20.00	No Qual, OK by Difference
SL-004-SA5DS-SS-0.0-0.5	MOLYBDENUM	38	20.00	
SL-005-SA5DS-SS-0.0-0.5	SELENIUM	42	20.00	
SL-006-SA5DS-SS-0.0-0.5				
SL-019-SA5DS-SS-0.0-0.5				
SL-020-SA5DS-SS-0.0-0.5				
SL-021-SA5DS-SS-0.0-0.5				
SL-022-SA5DS-SS-0.0-0.5				
SL-023-SA5DS-SS-0.0-0.5				
SL-024-SA5DS-SS-0.0-0.5				
SL-025-SA5DS-SS-0.0-0.5				
SL-038-SA5DS-SS-0.0-0.5				
SL-103-SA7-SB-4.0-5.0				
SL-103-SA7-SB-9.0-10.0				
SL-104-SA7-SB-4.0-5.0				
SL-104-SA7-SB-9.0-10.0				
SL-105-SA7-SB-4.0-5.0				
SL-172-SA7-SB-4.0-5.0				
SL-172-SA7-SB-9.0-10.0				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-103-SA7-SB-4.0-5.0DUP (DUP-09-SA7-QC-092711)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference
SL-004-SA5DS-SS-0.0-0.5				
SL-005-SA5DS-SS-0.0-0.5				
SL-006-SA5DS-SS-0.0-0.5				
SL-019-SA5DS-SS-0.0-0.5				
SL-020-SA5DS-SS-0.0-0.5				
SL-021-SA5DS-SS-0.0-0.5				
SL-022-SA5DS-SS-0.0-0.5				
SL-023-SA5DS-SS-0.0-0.5				
SL-024-SA5DS-SS-0.0-0.5				
SL-025-SA5DS-SS-0.0-0.5				
SL-038-SA5DS-SS-0.0-0.5				
SL-103-SA7-SB-4.0-5.0				
SL-103-SA7-SB-9.0-10.0				
SL-104-SA7-SB-4.0-5.0				
SL-104-SA7-SB-9.0-10.0				
SL-105-SA7-SB-4.0-5.0				
SL-172-SA7-SB-4.0-5.0				
SL-172-SA7-SB-9.0-10.0				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12766AQ241326A P12766AY241408A (EB-SA7-SB-092711)	Tetryl	71	67	72.00-141.00	-	Tetryl	J (all detects) UJ (all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P6WCLCSQ261423 (EB-SA7-SB-092711)	BIS(2-CHLOROETHYL) ETHER NITROBENZENE	109 111	-	77.00-108.00 75.00-109.00	-	BIS(2-CHLOROETHYL) ETHER NITROBENZENE	J(all detects)
P6WCLCSY261448 (EB-SA7-SB-092711)	BENZOIC ACID	-	-	10.00-69.00	82 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12799AQ242322A (SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5)	METHOXYCHLOR	130	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12832AQ241743A (SL-038-SA5DS-SS-0.0-0.5)	DINOSEB	8	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27226AQ222158A (DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0)	ANTIMONY	62	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27208AQ220112 (DUP-09-SA7-QC-092711 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-4.0-5.0 SL-103-SA7-SB-9.0-10.0 SL-104-SA7-SB-4.0-5.0 SL-104-SA7-SB-9.0-10.0 SL-105-SA7-SB-4.0-5.0 SL-172-SA7-SB-4.0-5.0 SL-172-SA7-SB-9.0-10.0)	ALUMINUM	143	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-092711	N-Nitrosodimethylamine-d6	277	50.00-150.00	All Target Analytes	J (all detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-006-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	127	20.00-120.00	All Target Analytes	J(all detects)
SL-023-SA5DS-SS-0.0-0.5	TETRACHLORO-M-XYLENE	46	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-022-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)
SL-023-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	155 154	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-103-SA7-SB-4.0-5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	135 152	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092711	BORON	J	0.0039	0.0500	PQL	mg/L	J (all detects)
		J	0.00023	0.0050	PQL	mg/L	

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092711	LEAD	J	0.00013	0.0010	PQL	mg/L	J (all detects)

Method: 7470A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092711	MERCURY	J	0.000045	0.00020	PQL	mg/L	J (all detects)

Method: 8260B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092711	METHYLENE CHLORIDE	J	3	5	PQL	ug/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092711	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.13	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.36	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.79	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.11	1.1	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-105-SA7-SB-4.0-5.0	Nitrate-NO3	J	0.96	1.5	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-09-SA7-QC-092711	SODIUM	J	81.8	99.1	PQL	mg/Kg	J (all detects)
	TIN	J	0.615	9.91	PQL	mg/Kg	
	Zirconium	J	1.13	4.96	PQL	mg/Kg	
SL-004-SA5DS-SS-0.0-0.5	SODIUM	J	93.6	101	PQL	mg/Kg	J (all detects)
	TIN	J	1.04	10.1	PQL	mg/Kg	
SL-005-SA5DS-SS-0.0-0.5	SODIUM	J	91.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	1.06	10.1	PQL	mg/Kg	
	Zirconium	J	3.56	5.03	PQL	mg/Kg	
SL-006-SA5DS-SS-0.0-0.5	SODIUM	J	85.9	97.0	PQL	mg/Kg	J (all detects)
	TIN	J	0.816	9.70	PQL	mg/Kg	
SL-019-SA5DS-SS-0.0-0.5	SODIUM	J	86.7	99.7	PQL	mg/Kg	J (all detects)
	TIN	J	0.959	9.97	PQL	mg/Kg	
SL-020-SA5DS-SS-0.0-0.5	SODIUM	J	88.1	99.4	PQL	mg/Kg	J (all detects)
	TIN	J	0.969	9.94	PQL	mg/Kg	
SL-021-SA5DS-SS-0.0-0.5	SODIUM	J	91.3	98.7	PQL	mg/Kg	J (all detects)
	TIN	J	1.08	9.87	PQL	mg/Kg	
	Zirconium	J	4.06	4.93	PQL	mg/Kg	
SL-022-SA5DS-SS-0.0-0.5	SODIUM	J	83.9	101	PQL	mg/Kg	J (all detects)
	TIN	J	1.03	10.1	PQL	mg/Kg	
SL-023-SA5DS-SS-0.0-0.5	SODIUM	J	98.7	101	PQL	mg/Kg	J (all detects)
	TIN	J	1.04	10.1	PQL	mg/Kg	
SL-024-SA5DS-SS-0.0-0.5	TIN	J	0.857	10.1	PQL	mg/Kg	J (all detects)
SL-025-SA5DS-SS-0.0-0.5	SODIUM	J	98.2	101	PQL	mg/Kg	J (all detects)
	TIN	J	1.01	10.1	PQL	mg/Kg	
SL-038-SA5DS-SS-0.0-0.5	SODIUM	J	85.8	98.8	PQL	mg/Kg	J (all detects)
	TIN	J	0.592	9.88	PQL	mg/Kg	
	Zirconium	J	4.84	4.94	PQL	mg/Kg	
SL-103-SA7-SB-4.0-5.0	TIN	J	0.840	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.38	5.14	PQL	mg/Kg	
SL-103-SA7-SB-9.0-10.0	TIN	J	0.721	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.905	5.29	PQL	mg/Kg	
SL-104-SA7-SB-4.0-5.0	SODIUM	J	82.2	101	PQL	mg/Kg	J (all detects)
	TIN	J	0.751	10.1	PQL	mg/Kg	
	Zirconium	J	1.40	5.07	PQL	mg/Kg	
SL-104-SA7-SB-9.0-10.0	TIN	J	0.916	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.06	5.31	PQL	mg/Kg	
SL-105-SA7-SB-4.0-5.0	SODIUM	J	71.3	102	PQL	mg/Kg	J (all detects)
	TIN	J	1.02	10.2	PQL	mg/Kg	
	Zirconium	J	0.965	5.11	PQL	mg/Kg	
SL-172-SA7-SB-4.0-5.0	TIN	J	0.895	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.55	5.21	PQL	mg/Kg	
SL-172-SA7-SB-9.0-10.0	TIN	J	0.941	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.23	5.45	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-09-SA7-QC-092711	CADMIUM	J	0.0950	0.100	PQL	mg/Kg	J (all detects)
		J	0.139	0.400	PQL	mg/Kg	
SL-004-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.105	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.350	0.403	PQL	mg/Kg	
	SILVER	J	0.0252	0.101	PQL	mg/Kg	
SL-005-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.112	0.193	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.244	0.387	PQL	mg/Kg	
	SILVER	J	0.0236	0.0967	PQL	mg/Kg	
SL-006-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.134	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.178	0.403	PQL	mg/Kg	
	SILVER	J	0.0282	0.101	PQL	mg/Kg	
SL-019-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.0922	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.190	0.403	PQL	mg/Kg	
	SILVER	J	0.0210	0.101	PQL	mg/Kg	
SL-020-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.107	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.190	0.406	PQL	mg/Kg	
	SILVER	J	0.0708	0.101	PQL	mg/Kg	
SL-021-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.100	0.197	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.170	0.395	PQL	mg/Kg	
	SILVER	J	0.0207	0.0987	PQL	mg/Kg	
SL-022-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.108	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.217	0.403	PQL	mg/Kg	
	SILVER	J	0.0204	0.101	PQL	mg/Kg	
SL-023-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.111	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.259	0.404	PQL	mg/Kg	
	SILVER	J	0.0152	0.101	PQL	mg/Kg	
SL-024-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.119	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.170	0.399	PQL	mg/Kg	
	SILVER	J	0.0169	0.0996	PQL	mg/Kg	
SL-025-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.133	0.194	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.188	0.389	PQL	mg/Kg	
	SILVER	J	0.0162	0.0972	PQL	mg/Kg	
SL-038-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.122	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.292	0.403	PQL	mg/Kg	
	SILVER	J	0.0234	0.101	PQL	mg/Kg	
SL-103-SA7-SB-4.0-5.0	ANTIMONY	J	0.0944	0.210	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0906	0.105	PQL	mg/Kg	
	SELENIUM	J	0.160	0.419	PQL	mg/Kg	
	SILVER	J	0.0234	0.105	PQL	mg/Kg	
SL-103-SA7-SB-9.0-10.0	CADMIUM	J	0.0962	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.436	PQL	mg/Kg	
	SILVER	J	0.0182	0.109	PQL	mg/Kg	
SL-104-SA7-SB-4.0-5.0	CADMIUM	J	0.0978	0.101	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.135	0.406	PQL	mg/Kg	
	SILVER	J	0.0200	0.101	PQL	mg/Kg	
SL-104-SA7-SB-9.0-10.0	CADMIUM	J	0.102	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.101	0.420	PQL	mg/Kg	
	SILVER	J	0.0221	0.105	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-105-SA7-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J	0.0921	0.103	PQL	mg/Kg	J (all detects)
		J	0.142	0.413	PQL	mg/Kg	
		J	0.0154	0.103	PQL	mg/Kg	
SL-172-SA7-SB-4.0-5.0	SELENIUM SILVER	J	0.160	0.430	PQL	mg/Kg	J (all detects)
		J	0.0248	0.107	PQL	mg/Kg	
SL-172-SA7-SB-9.0-10.0	SELENIUM SILVER	J	0.126	0.428	PQL	mg/Kg	J (all detects)
		J	0.0224	0.107	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.97	1.0	PQL	mg/Kg	J (all detects)
SL-005-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.92	1.0	PQL	mg/Kg	J (all detects)
SL-021-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.65	1.0	PQL	mg/Kg	J (all detects)
SL-022-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.0	PQL	mg/Kg	J (all detects)
SL-024-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.67	1.0	PQL	mg/Kg	J (all detects)
SL-025-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.86	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-09-SA7-QC-092711	MERCURY	J	0.0079	0.101	PQL	mg/Kg	J (all detects)
SL-004-SA5DS-SS-0.0-0.5	MERCURY	J	0.0103	0.101	PQL	mg/Kg	J (all detects)
SL-005-SA5DS-SS-0.0-0.5	MERCURY	J	0.0074	0.0945	PQL	mg/Kg	J (all detects)
SL-006-SA5DS-SS-0.0-0.5	MERCURY	J	0.0109	0.0963	PQL	mg/Kg	J (all detects)
SL-019-SA5DS-SS-0.0-0.5	MERCURY	J	0.0135	0.0991	PQL	mg/Kg	J (all detects)
SL-020-SA5DS-SS-0.0-0.5	MERCURY	J	0.0088	0.0959	PQL	mg/Kg	J (all detects)
SL-021-SA5DS-SS-0.0-0.5	MERCURY	J	0.0115	0.0972	PQL	mg/Kg	J (all detects)
SL-022-SA5DS-SS-0.0-0.5	MERCURY	J	0.0193	0.0997	PQL	mg/Kg	J (all detects)
SL-023-SA5DS-SS-0.0-0.5	MERCURY	J	0.0118	0.0967	PQL	mg/Kg	J (all detects)
SL-024-SA5DS-SS-0.0-0.5	MERCURY	J	0.0098	0.100	PQL	mg/Kg	J (all detects)
SL-025-SA5DS-SS-0.0-0.5	MERCURY	J	0.0098	0.0963	PQL	mg/Kg	J (all detects)
SL-038-SA5DS-SS-0.0-0.5	MERCURY	J	0.0877	0.0977	PQL	mg/Kg	J (all detects)
SL-172-SA7-SB-4.0-5.0	MERCURY	J	0.0079	0.105	PQL	mg/Kg	J (all detects)
SL-172-SA7-SB-9.0-10.0	MERCURY	J	0.0490	0.105	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
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Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA7-SB-4.0-5.0	EFH (C15-C20)	J	0.60	1.3	PQL	mg/Kg	J (all detects)
SL-103-SA7-SB-9.0-10.0	EFH (C15-C20)	J	0.44	1.3	PQL	mg/Kg	J (all detects)
SL-104-SA7-SB-4.0-5.0	EFH (C15-C20)	J	0.53	1.3	PQL	mg/Kg	J (all detects)
SL-105-SA7-SB-4.0-5.0	EFH (C15-C20)	J	0.45	1.2	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-019-SA5DS-SS-0.0-0.5	4,4'-DDE	J	0.23	0.34	PQL	ug/Kg	J (all detects)
	ENDRIN ALDEHYDE	J	0.086	0.34	PQL	ug/Kg	
SL-020-SA5DS-SS-0.0-0.5	Chlordane	J	2.9	3.4	PQL	ug/Kg	J (all detects)
SL-021-SA5DS-SS-0.0-0.5	Chlordane	J	1.6	3.4	PQL	ug/Kg	J (all detects)
	TOXAPHENE	J	2.6	6.7	PQL	ug/Kg	
SL-022-SA5DS-SS-0.0-0.5	DELTA-BHC	J	0.046	0.17	PQL	ug/Kg	J (all detects)
	ENDRIN KETONE	J	0.097	0.34	PQL	ug/Kg	
SL-023-SA5DS-SS-0.0-0.5	4,4'-DDE	J	0.25	0.35	PQL	ug/Kg	J (all detects)
	Chlordane	J	1.8	3.5	PQL	ug/Kg	
SL-025-SA5DS-SS-0.0-0.5	BETA-BHC	J	0.079	0.17	PQL	ug/Kg	J (all detects)
	Chlordane	J	2.5	3.5	PQL	ug/Kg	
SL-038-SA5DS-SS-0.0-0.5	Chlordane	J	1.1	3.5	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	0.51	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.67	1.7	PQL	ug/Kg	
	Aroclor 5460	J	1.2	3.4	PQL	ug/Kg	
SL-006-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.0	1.7	PQL	ug/Kg	
	Aroclor 5460	J	1.9	3.4	PQL	ug/Kg	
SL-019-SA5DS-SS-0.0-0.5	AROCLOR 1260	J	0.52	1.7	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.87	1.7	PQL	ug/Kg	
	Aroclor 5460	J	2.0	3.3	PQL	ug/Kg	
SL-021-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	0.89	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.71	1.7	PQL	ug/Kg	
	Aroclor 5460	J	1.6	3.3	PQL	ug/Kg	
SL-022-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.97	1.7	PQL	ug/Kg	
	Aroclor 5460	J	2.0	3.4	PQL	ug/Kg	
SL-023-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	0.64	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.75	1.7	PQL	ug/Kg	
	Aroclor 5460	J	1.6	3.4	PQL	ug/Kg	
SL-024-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	0.89	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.3	3.3	PQL	ug/Kg	
SL-025-SA5DS-SS-0.0-0.5	Aroclor 5460	J	1.3	3.3	PQL	ug/Kg	J (all detects)
SL-038-SA5DS-SS-0.0-0.5	AROCLOR 1242	J	0.72	1.7	PQL	ug/Kg	J (all detects)
SL-103-SA7-SB-4.0-5.0	AROCLOR 1260	J	0.47	1.8	PQL	ug/Kg	J (all detects)
SL-104-SA7-SB-4.0-5.0	AROCLOR 1260	J	0.90	1.8	PQL	ug/Kg	J (all detects)
SL-104-SA7-SB-9.0-10.0	AROCLOR 1260	J	0.47	1.8	PQL	ug/Kg	J (all detects)
SL-105-SA7-SB-4.0-5.0	AROCLOR 1260	J	0.75	1.7	PQL	ug/Kg	J (all detects)
SL-172-SA7-SB-4.0-5.0	AROCLOR 1260	J	0.76	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DS-SS-0.0-0.5	2,4-D	J	2.0	3.7	PQL	ug/Kg	J (all detects)
SL-021-SA5DS-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.13	0.17	PQL	ug/Kg	J (all detects)
SL-038-SA5DS-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.090	0.17	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.61	1.2	PQL	ug/Kg	
	DICHLOROPROP	J	1.6	1.7	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-09-SA7-QC-092711	Di-n-butylphthalate	J	35	170	PQL	ug/Kg	J (all detects)
SL-005-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	340	PQL	ug/Kg	J (all detects)
SL-006-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	51	340	PQL	ug/Kg	J (all detects)
SL-024-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	340	PQL	ug/Kg	J (all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-09-SA7-QC-092711	BENZO(A)ANTHRACENE	J	0.76	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.0	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.5	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.0	1.7	PQL	ug/Kg	
	PYRENE	J	1.5	1.7	PQL	ug/Kg	
SL-004-SA5DS-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.78	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	0.81	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-005-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.76	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.0	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.71	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.7	PQL	ug/Kg	
SL-006-SA5DS-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.78	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.73	1.7	PQL	ug/Kg	
SL-019-SA5DS-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.36	1.7	PQL	ug/Kg	
SL-020-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.76	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.71	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.6	18	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.7	PQL	ug/Kg	
	PYRENE	J	1.6	1.7	PQL	ug/Kg	
SL-021-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	18	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.93	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.98	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.76	1.7	PQL	ug/Kg	
	PYRENE	J	0.86	1.7	PQL	ug/Kg	
SL-022-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	10	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.89	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.87	1.7	PQL	ug/Kg	
SL-023-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.5	1.7	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.90	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.6	18	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE256

Laboratory: LL

EDD Filename: DE256_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA5DS-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.71	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.79	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.70	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.6	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.7	PQL	ug/Kg	
	PYRENE	J	1.5	1.7	PQL	ug/Kg	
SL-025-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.5	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.6	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.74	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.7	PQL	ug/Kg	
SL-038-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	19	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.78	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.92	1.7	PQL	ug/Kg	
	PYRENE	J	0.89	1.7	PQL	ug/Kg	
SL-103-SA7-SB-4.0-5.0	CHRYSENE	J	0.48	1.7	PQL	ug/Kg	J (all detects)
SL-103-SA7-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.91	1.8	PQL	ug/Kg	J (all detects)
SL-104-SA7-SB-4.0-5.0	BENZO(A)PYRENE	J	0.75	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.3	19	PQL	ug/Kg	
	CHRYSENE	J	0.76	1.7	PQL	ug/Kg	
	PYRENE	J	0.98	1.7	PQL	ug/Kg	
SL-104-SA7-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.72	1.7	PQL	ug/Kg	J (all detects)
SL-105-SA7-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	0.87	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.5	1.7	PQL	ug/Kg	
SL-172-SA7-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.50	1.8	PQL	ug/Kg	
SL-172-SA7-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)

LDC #: 26859Z4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE256

ADR

Laboratory: Lancaster Laboratories

Date: 1/4/12

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N SW	Al, Ba, Ca, Fe, Mg, Mn, Ti, > 4X
VII.	Duplicate Sample Analysis	N SW	Sb, Mo, Se, Zr < 5X
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB=20

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-004-SA5DS-SS-0.0-0.5	11	SL-038-SA5DS-SS-0.0-0.5	21	SL-103-SA7-SB-4.0-5.0MS	31	
2	SL-005-SA5DS-SS-0.0-0.5	12	SL-103-SA7-SB-4.0-5.0	22	SL-103-SA7-SB-4.0-5.0MSD	32	
3	SL-006-SA5DS-SS-0.0-0.5	13	SL-103-SA7-SB-9.0-10.0	23	SL-103-SA7-SB-4.0-5.0DUP	33	
4	SL-019-SA5DS-SS-0.0-0.5	14	SL-104-SA7-SB-4.0-5.0	24		34	
5	SL-020-SA5DS-SS-0.0-0.5	15	SL-104-SA7-SB-9.0-10.0	25		35	
6	SL-021-SA5DS-SS-0.0-0.5	16	SL-105-SA7-SB-4.0-5.0	26		36	
7	SL-022-SA5DS-SS-0.0-0.5	17	SL-172-SA7-SB-4.0-5.0	27		37	
8	SL-023-SA5DS-SS-0.0-0.5	18	SL-172-SA7-SB-9.0-10.0	28		38	
9	SL-024-SA5DS-SS-0.0-0.5	19	DUP-09-SA7-QC-092711	29		39	
10	SL-025-SA5DS-SS-0.0-0.5	20	EB-SA7-SB-092711	30		40	

Notes:

PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Reviewer: [Signature]

Soil preparation factor applied: 100X

2nd Reviewer: [Signature]

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All AQ Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit									
Pb			0.061	0.305	20								
Hg			0.036	0.18									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

Y N N/A Were field blanks identified in this SDG?

Y N N/A Were target analytes detected in the field blanks?

Blank units: ug/L **Associated sample units:** mg/Kg

Sampling date: 9/27/11 **Soil factor applied:** 100X, Hg:167X

Field blank type: (circle one) Field Blank / Rinsate / Other:

12-19
Associated Samples: All Soil Reason Code: F

Analyte	Blank ID	Sample Identification														
		1	2	3	4	5	6	7	8	9	10					
	20	1.95	0.065	0.037575	0.115	0.010	0.0074	0.011	0.014	0.0088	0.012	0.019	0.042	0.0098	0.0079	0.0079
B	3.9															
Pb	0.13															
Hg	0.045															
Sr	0.23															

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE256
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6421299BKG Matrix Spike Lab Sample ID: 6421300MS Matrix Spike Duplicate Lab Sample ID: 6421301MSD
 & Solids for Sample: 95.4
 Batch Id(s): P27208A, P27226A, P27211A, P28408B

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C				%R	Q	%R	Q	%R	RPD
Aluminum	121	13667.8290		14417.2510		15679.3002		207.5679	203.5375	MG/KG	361	30N	988	8	74	20P
Antimony	75	0.0944	B	0.5289		0.4602		1.2454	1.2095	MG/KG	35N	30N	30	14	75-125	20MS
Arsenic	137	3.8470		5.9800		5.9708		2.0757	2.0158	MG/KG	103	105	105	0	75-125	20MS
Barium	9	76.5199		88.4862		92.0618		10.3784	10.0790	MG/KG	115	154	154	4	74	20MS
Beryllium	9	0.5000		1.2116		1.1883		0.8303	0.8063	MG/KG	86	85	85	2	75-125	20MS
Boron	111	6.9275		201.0389		203.4785		207.5679	203.5375	MG/KG	94	97	97	1	84-115	20P
Cadmium	111	0.0906	B	1.1460		1.0817		1.0378	1.0079	MG/KG	102	98	98	6	75-125	20MS
Calcium	52	5169.9973		4015.4742		4565.1981		415.1358	407.0750	MG/KG	-278	-149	-149	13	74	20P
Chromium	52	15.1321		24.4307		23.5043		10.3784	10.0790	MG/KG	90	83	83	4	75-125	20MS
Cobalt	59	4.7526		53.2204		51.1006		51.8920	50.3951	MG/KG	93	92	92	4	75-125	20MS
Copper	63	7.1447		17.5914		16.0881		10.3784	10.0790	MG/KG	101	89	89	9	75-125	20MS
Iron	208	18270.9705		17348.3218		19123.2257		103.7840	101.7687	MG/KG	-889	837	837	10	74	20P
Lead	208	4.7966		7.9955		7.6681		3.1135	3.0237	MG/KG	103	95	95	4	75-125	20MS
Lithium	23	23.5346		124.3716		126.1719		103.7840	101.7687	MG/KG	97	101	101	1	82-114	20P
Magnesium	4198	4198.1502		4405.2546		4765.9431		207.5679	203.5375	MG/KG	100	279	279	8	74	20P
Manganese	258	258.6437		286.4323		308.4387		51.8920	50.8844	MG/KG	54	98	98	7	74	20P
Mercury	0.0073	0.0073	U	0.1725		0.1734		0.1691	0.1741	MG/KG	102	100	100	1	65-135	20CV
Molybdenum	98	0.6149		10.1750		9.8332		10.3784	10.0790	MG/KG	92	92	92	3	75-125	20MS
Nickel	60	9.3354		20.0033		18.7409		10.3784	10.0790	MG/KG	103	93	93	7	75-125	20MS
Phosphorus	355	355.8628		434.1688		449.1126		103.7840	101.7687	MG/KG	75	92	92	3	75-125	20P
Potassium	2674	2674.5468		3778.4513		3942.8457		1037.8396	1017.6874	MG/KG	106	125	125	4	75-125	20P
Selenium	78	0.1604	B	2.1006		2.1005		2.0757	2.0158	MG/KG	93	96	96	0	75-125	20MS
Silver	107	0.0234	B	10.1874		9.7867		10.3784	10.0790	MG/KG	98	97	97	4	75-125	20MS
Sodium	103	103.0881		1021.7407		1043.8348		1037.8396	1017.6874	MG/KG	89	92	92	2	75-125	20P
Strontium	26	26.1572		115.0310		117.7230		103.7840	101.7687	MG/KG	86	86	86	2	75-115	20P
Thallium	203	0.2400		0.6557		0.6152		0.4151	0.4032	MG/KG	100	93	93	6	75-125	20MS
Tin	0.8396	0.8396	B	360.8755		359.7861		415.1358	407.0750	MG/KG	87	88	88	0	80-110	20P
Titanium	1054	1054.7817		1261.5163		1293.9919		100.7902	103.7840	MG/KG	205	230	230	3	74	20P
Vanadium	51	30.5241		39.9568		39.3888		10.3784	10.0790	MG/KG	91	88	88	1	75-125	20MS
Zinc	66	52.8931		64.5744		61.2603		10.3784	10.0790	MG/KG	113	83	83	5	75-125	20MS
Zirconium	138	1.3812	B	101.3886		101.2283		103.7840	101.7687	MG/KG	96	98	98	0	81-110	20P

METHODS: P = ICP Atomic Emission Spectrometer CV = Cold Vapor MS = ICP Mass Spectrometry
 CONCENTRATION QUALIFIERS: U = Below MDL, B = Below LOQ
 FLAGS: N = Matrix Spike OOS, * = Duplicate OOS



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE256

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6421299BKG

Duplicate Lab Sample ID: 6421302DUP

% Solids for Duplicate: 95.2

% Solids for Sample: 95.4

Batch ID(s): P27208A, P27226A, P27211A, P28408B

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			13667.8290		13449.7437			2	P
Antimony	121		0.0944	B	0.0760	U	280		MS
Arsenic	75		3.8470		3.7777			2	MS
Barium	137		76.5199		80.0140			4	MS
Beryllium	9	0.1	0.5000		0.4692			6	MS
Boron		5.1	6.9275		6.5467			6	P
Cadmium	111		0.0906	B	0.0789	B		14	MS
Calcium			5169.9973		3501.8141			38 *	P
Chromium	52		15.1321		14.1345			7	MS
Cobalt	59		4.7526		4.8218			1	MS
Copper	63		7.1447		6.7682			5	MS
Iron			18270.9705		18669.9141			2	P
Lead	208		4.7966		4.4971			6	MS
Lithium			23.5346		25.1479			7	P
Magnesium			4198.1502		4437.6590			6	P
Manganese			258.6437		247.6088			4	P
Mercury			0.0073	U	0.0074	U			CV
Molybdenum	98	0.1	0.6149		0.4203			38 *	MS
Nickel	60		9.3354		9.1565			2	MS
Phosphorus			355.8628		329.2214			8	P
Potassium			2674.5468		2874.8075			7	P
Selenium	78		0.1604	B	0.1048	B		42	MS
Silver	107		0.0234	B	0.0240	B		3	MS
Sodium		102.8	103.0881		95.8538	B		7	P
Strontium			26.1572		16.1571			47 *	P
Thallium	203	0.1	0.2400		0.2234			7	MS
Tin			0.8396	B	0.7877	B		6	P
Titanium			1054.7817		1070.9829			2	P
Vanadium	51		30.5241		29.1240			5	MS
Zinc	66		52.8931		55.2473			4	MS
Zirconium			1.3812	B	2.1193	B		42	P

ok by Jeffery

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ). The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE256 5728

<p>METHODS:</p> <p>P = ICP Atomic Emission Spectrometer</p> <p>MS = ICP Mass Spectrometry</p> <p>CV = Cold Vapor</p> <p>AF = Cold Vapor Atomic Fluorescence</p>	<p>CONCENTRATION QUALIFIERS:</p> <p>U= Below MDL</p> <p>B= Below LOQ</p> <p>FLAGS:</p> <p>* = Duplicate Out of Spec</p>
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SAMPLE DELIVERY GROUP

DE257

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	3050B	6010B	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	3050B	6020	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	3550B	8081A	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	3550B	8082	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	3550B	8151A	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	3550B	8270C	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	3550B	8270C SIM	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	Gen Prep	7199	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	METHOD	300.0	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	METHOD	314.0	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	METHOD	6850	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422530	N	METHOD	7471A	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	3050B	6010B	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	3050B	6020	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	3550B	8081A	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	3550B	8082	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	3550B	8151A	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	3550B	8270C	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	3550B	8270C SIM	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	Gen Prep	7199	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	METHOD	300.0	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	METHOD	314.0	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422529	N	METHOD	7471A	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	3050B	6010B	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	3050B	6020	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	3550B	8082	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	3550B	8151A	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	3550B	8270C	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	3550B	8270C SIM	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	Gen Prep	7199	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	METHOD	300.0	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	METHOD	314.0	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422532	N	METHOD	7471A	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	3050B	6010B	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	3050B	6020	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	3550B	8081A	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	3550B	8082	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	3550B	8151A	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	3550B	8270C	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	3550B	8270C SIM	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	Gen Prep	7199	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	METHOD	300.0	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	METHOD	314.0	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422537	N	METHOD	7471A	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	3050B	6010B	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	3050B	6020	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	3550B	8081A	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	3550B	8082	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	3550B	8151A	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	3550B	8270C	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	Gen Prep	7199	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	METHOD	300.0	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	METHOD	314.0	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422536	N	METHOD	7471A	III
28-Sep-2011	SL-106-SA7-SB-15.5	6422525	N	5035	8015M	III
28-Sep-2011	SL-106-SA7-SB-15.5	6422525	N	5035	8260B	III
28-Sep-2011	SL-106-SA7-SB-15.5	6422525	N	5035	8260B SIM	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	3050B	6010B	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	3050B	6020	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	3546	1625C	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	3550B	8015B	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	3550B	8015M	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	3550B	8082	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	3550B	8270C	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	3550B	8270C SIM	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	5035	8015M	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	Gen Prep	7199	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	METHOD	300.0	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	METHOD	314.0	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	METHOD	7471A	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	METHOD	8015B	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	METHOD	8015M	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422527	N	METHOD	8315A	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	3050B	6010B	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	3050B	6020	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	3550B	8082	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	3550B	8151A	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	3550B	8270C	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	3550B	8270C SIM	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	Gen Prep	7199	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	METHOD	300.0	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	METHOD	314.0	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422531	N	METHOD	7471A	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	3050B	6010B	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	3050B	6020	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	3550B	8081A	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	3550B	8082	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	3550B	8151A	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	3550B	8270C	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	3550B	8270C SIM	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	Gen Prep	7199	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	METHOD	300.0	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	METHOD	314.0	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422534	N	METHOD	7471A	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	3050B	6010B	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	3050B	6020	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	3550B	8081A	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	3550B	8082	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	3550B	8151A	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	3550B	8270C	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	Gen Prep	7199	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	METHOD	300.0	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	METHOD	314.0	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	METHOD	6850	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422535	N	METHOD	7471A	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	3050B	6010B	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	3050B	6020	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	3550B	8081A	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	3550B	8082	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	3550B	8151A	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	3550B	8270C	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	3550B	8270C SIM	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	Gen Prep	7199	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	METHOD	300.0	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	METHOD	314.0	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422533	N	METHOD	7471A	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	3050B	6010B	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	3050B	6020	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	3546	1625C	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	3550B	8015B	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	3550B	8015M	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	3550B	8082	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	3550B	8270C	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	3550B	8270C SIM	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	5035	8015M	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	Gen Prep	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	METHOD	300.0	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	METHOD	314.0	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	METHOD	7471A	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	METHOD	8015B	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	METHOD	8015M	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422523	N	METHOD	8315A	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	3050B	6010B	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	3050B	6020	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	3546	1625C	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	3550B	8015B	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	3550B	8015M	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	3550B	8082	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	3550B	8270C	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	3550B	8270C SIM	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	5035	8015M	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	Gen Prep	7199	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	METHOD	300.0	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	METHOD	314.0	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	METHOD	7471A	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	METHOD	8015B	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	METHOD	8015M	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422524	N	METHOD	8315A	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	3050B	6010B	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	3050B	6020	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	3546	1625C	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	3550B	8015M	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	3550B	8082	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	3550B	8270C	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	3550B	8270C SIM	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	5035	8015M	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	Gen Prep	7199	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	METHOD	300.0	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	METHOD	314.0	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	METHOD	7471A	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	METHOD	8015B	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	METHOD	8015M	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422526	N	METHOD	8315A	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	3005A	6010B	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	3020A	6020	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	3510C	8081A	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	3510C	8082	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	3510C	8270C	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	3510C	8270C SIM	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	Gen Prep	300.0	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	Gen Prep	314.0	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	Gen Prep	7199	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	METHOD	7470A	III
28-Sep-2011	EB-SA5DS-SS-092811	6422547	EB	METHOD	8151A	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	3050B	6010B	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	3050B	6020	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	3550B	8082	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	3550B	8151A	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	3550B	8270C	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	3550B	8270C SIM	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	Gen Prep	7199	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	METHOD	300.0	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	METHOD	314.0	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422538	N	METHOD	7471A	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	3050B	6010B	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	3050B	6020	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	3550B	8081A	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	3550B	8082	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	3550B	8151A	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	3550B	8270C	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	3550B	8270C SIM	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	Gen Prep	7199	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	METHOD	300.0	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	METHOD	314.0	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422539	N	METHOD	7471A	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	3050B	6010B	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	3050B	6020	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	3550B	8081A	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	3550B	8082	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	3550B	8151A	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	3550B	8270C	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	Gen Prep	7199	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	METHOD	300.0	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	METHOD	314.0	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422540	MS	METHOD	7471A	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5DU	6422542	DUP	3050B	6010B	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5DU	6422542	DUP	3050B	6020	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5DU	6422542	DUP	Gen Prep	7199	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5DU	6422542	DUP	METHOD	300.0	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5DU	6422542	DUP	METHOD	314.0	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5DU	6422542	DUP	METHOD	7471A	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	3050B	6010B	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	3050B	6020	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	3550B	8081A	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	3550B	8082	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	3550B	8151A	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	3550B	8270C	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	3550B	8270C SIM	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	Gen Prep	7199	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	METHOD	300.0	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	METHOD	314.0	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422546	FD	METHOD	7471A	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	3050B	6010B	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	3050B	6020	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	3546	1625C	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	3550B	8015B	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	3550B	8082	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	3550B	8270C	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	3550B	8270C SIM	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	5035	8015M	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	Gen Prep	7199	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	METHOD	300.0	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	METHOD	314.0	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	METHOD	6850	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	METHOD	7471A	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	METHOD	8015B	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	METHOD	8015M	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422522	N	METHOD	8315A	III
28-Sep-2011	TB-092711	6422528	TB	5030B	8015M	III
28-Sep-2011	TB-092711	6422528	TB	5030B	8260B	III
28-Sep-2011	TB-092711	6422528	TB	5030B	8260B SIM	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0DU	P422522D270032A	DUP	METHOD	300.0	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0DU	P422522D272022A	DUP	METHOD	314.0	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0MS	P422522R270045A	MS	METHOD	300.0	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0MS	P422522R272045A	MS	METHOD	314.0	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	3050B	6010B	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	3050B	6020	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	3550B	8081A	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	3550B	8082	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	3550B	8151A	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	3550B	8270C	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	Gen Prep	7199	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	METHOD	300.0	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	METHOD	314.0	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	METHOD	6850	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422545	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-007-SA5DS-SS-0.0-0.5			Collected: 9/28/2011 8:00:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q	

Sample ID: SL-008-SA5DS-SS-0.0-0.5			Collected: 9/28/2011 7:30:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	1.1		0.81	MDL	1.0	PQL	mg/Kg	J	Q	

Sample ID: SL-009-SA5DS-SS-0.0-0.5			Collected: 9/28/2011 9:50:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q	

Sample ID: SL-010-SA5DS-SS-0.0-0.5			Collected: 9/28/2011 8:20:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q	

Sample ID: SL-013-SA5DS-SS-0.0-0.5			Collected: 9/28/2011 11:00:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.93	J	0.81	MDL	1.0	PQL	mg/Kg	J	Z, Q	

Sample ID: SL-103-SA7-SB-18.0-19.0			Collected: 9/28/2011 2:30:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	2.8		0.87	MDL	1.1	PQL	mg/Kg	J	Q	

Sample ID: SL-106-SA7-SB-16.5-17.5			Collected: 9/28/2011 12:45:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	4.2		0.86	MDL	1.1	PQL	mg/Kg	J	Q	

Sample ID: SL-106-SA7-SB-19.0-20.0			Collected: 9/28/2011 9:50:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	2.1		0.85	MDL	1.1	PQL	mg/Kg	J	Q	

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-106-SA7-SB-4.0-5.0 Collected: 9/28/2011 12:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.83	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-9.0-10.0 Collected: 9/28/2011 12:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA5DS-SS-092811 Collected: 9/28/2011 1:00:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0025	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z
PHOSPHORUS	0.0105	J	0.0047	MDL	0.100	PQL	mg/L	U	B

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP-02-SA5DS-QC-092811 Collected: 9/28/2011 1:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	99.2	J	6.12	MDL	103	PQL	mg/Kg	J	Z
TIN	2.82	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	4.15	J	0.473	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	87.7	J	5.98	MDL	101	PQL	mg/Kg	J	Z
TIN	2.67	J	0.322	MDL	10.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6010B	Matrix:		SO					

Sample ID: SL-008-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 7:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.38	J	0.360	MDL	5.00	PQL	mg/Kg	J	Z
SODIUM	69.5	J	5.95	MDL	99.9	PQL	mg/Kg	J	Z
TIN	2.57	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	0.970	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	88.4	J	6.04	MDL	102	PQL	mg/Kg	J	Z
TIN	2.78	J	0.325	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-010-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	91.2	J	5.97	MDL	100	PQL	mg/Kg	J	Z
TIN	2.63	J	0.321	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-013-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 11:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	85.1	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.52	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.72	J	0.466	MDL	5.06	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	93.6	J	5.92	MDL	99.5	PQL	mg/Kg	J	Z
TIN	2.71	J	0.319	MDL	9.95	PQL	mg/Kg	U	B
Zirconium	2.65	J	0.458	MDL	4.98	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	84.7	J	5.87	MDL	98.7	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6010B	Matrix:	SO						

Sample ID: SL-015-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.74	J	0.316	MDL	9.87	PQL	mg/Kg	U	B

Sample ID: SL-016-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	80.5	J	6.13	MDL	103	PQL	mg/Kg	J	Z
TIN	2.71	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	4.97	J	0.474	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	97.7	J	5.93	MDL	99.7	PQL	mg/Kg	J	Z
TIN	2.83	J	0.319	MDL	9.97	PQL	mg/Kg	U	B

Sample ID: SL-033-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.66	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.67	J	0.477	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	100	J	6.14	MDL	103	PQL	mg/Kg	J	Z
TIN	2.95	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	4.78	J	0.474	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 3:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	83.6	J	5.97	MDL	100	PQL	mg/Kg	J	Z
TIN	2.42	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	3.49	J	0.461	MDL	5.02	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-103-SA7-SB-18.0-19.0

Collected: 9/28/2011 2:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.67	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.67	J	0.486	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-16.5-17.5

Collected: 9/28/2011 12:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.89	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.46	J	0.488	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-19.0-20.0

Collected: 9/28/2011 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.77	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.26	J	0.479	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-4.0-5.0

Collected: 9/28/2011 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.55	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	0.809	J	0.463	MDL	5.04	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-9.0-10.0

Collected: 9/28/2011 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.42	J	0.378	MDL	5.25	PQL	mg/Kg	J	Z
TIN	2.78	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.01	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: AQ

Sample ID: EB-SA5DS-SS-092811

Collected: 9/28/2011 1:00:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.00022	J	0.00020	MDL	0.00050	PQL	mg/L	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP-02-SA5DS-QC-092811 Collected: 9/28/2011 1:55:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.267	J	0.0580	MDL	0.400	PQL	mg/Kg	J	Z

Sample ID: DUP-02-SA5DS-QC-092811 Collected: 9/28/2011 1:55:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.543		0.0500	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: DUP-02-SA5DS-QC-092811 Collected: 9/28/2011 1:55:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.330		0.0740	MDL	0.200	PQL	mg/Kg	J	Q
ARSENIC	7.53		0.0800	MDL	0.400	PQL	mg/Kg	J	Q
CADMIUM	0.277		0.0440	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	40.4		0.120	MDL	0.400	PQL	mg/Kg	J	Q
COBALT	14.2		0.0200	MDL	0.100	PQL	mg/Kg	J	Q
COPPER	21.8		0.0800	MDL	0.400	PQL	mg/Kg	J	Q
LEAD	12.7		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
NICKEL	28.0		0.100	MDL	0.400	PQL	mg/Kg	J	Q
SILVER	0.0420	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.448		0.0300	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.204	J	0.0566	MDL	0.390	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.705		0.0488	MDL	0.0976	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.271		0.0722	MDL	0.195	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6020			Matrix: SO					

Sample ID: SL-007-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.01		0.0781	MDL	0.390	PQL	mg/Kg	J	Q
CADMIUM	0.203		0.0430	MDL	0.0976	PQL	mg/Kg	J	Q
CHROMIUM	37.6		0.117	MDL	0.390	PQL	mg/Kg	J	Q
COBALT	6.77		0.0195	MDL	0.0976	PQL	mg/Kg	J	Q
COPPER	7.44		0.0781	MDL	0.390	PQL	mg/Kg	J	Q
LEAD	14.2		0.010	MDL	0.195	PQL	mg/Kg	J	Q
NICKEL	12.7		0.0976	MDL	0.390	PQL	mg/Kg	J	Q
SILVER	0.0242	J	0.0139	MDL	0.0976	PQL	mg/Kg	J	Z, Q
THALLIUM	0.184		0.0293	MDL	0.0976	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 7:30:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0809	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: SL-008-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 7:30:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.439		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 7:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0732	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	4.51		0.0792	MDL	0.396	PQL	mg/Kg	J	Q
CADMIUM	0.125		0.0435	MDL	0.0990	PQL	mg/Kg	J	Q
CHROMIUM	16.6		0.119	MDL	0.396	PQL	mg/Kg	J	Q
COBALT	6.13		0.0198	MDL	0.0990	PQL	mg/Kg	J	Q
COPPER	7.88		0.0792	MDL	0.396	PQL	mg/Kg	J	Q
LEAD	5.33		0.0101	MDL	0.198	PQL	mg/Kg	J	Q
NICKEL	12.0		0.0990	MDL	0.396	PQL	mg/Kg	J	Q
SILVER	0.0787	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q
THALLIUM	0.284		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-009-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:50:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.222	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:50:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.696		0.0498	MDL	0.0995	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.294		0.0737	MDL	0.199	PQL	mg/Kg	J	Q
ARSENIC	6.31		0.0796	MDL	0.398	PQL	mg/Kg	J	Q
CADMIUM	0.221		0.0438	MDL	0.0995	PQL	mg/Kg	J	Q
CHROMIUM	38.3		0.119	MDL	0.398	PQL	mg/Kg	J	Q
COBALT	7.48		0.0199	MDL	0.0995	PQL	mg/Kg	J	Q
COPPER	8.34		0.0796	MDL	0.398	PQL	mg/Kg	J	Q
LEAD	14.8		0.0102	MDL	0.199	PQL	mg/Kg	J	Q
NICKEL	13.4		0.0995	MDL	0.398	PQL	mg/Kg	J	Q
SILVER	0.0309	J	0.0141	MDL	0.0995	PQL	mg/Kg	J	Z, Q
THALLIUM	0.216		0.0299	MDL	0.0995	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:20:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.252	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:20:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.792		0.0497	MDL	0.0994	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:20:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.307		0.0736	MDL	0.199	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-010-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:20:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.13		0.0795	MDL	0.398	PQL	mg/Kg	J	Q
CADMIUM	0.297		0.0437	MDL	0.0994	PQL	mg/Kg	J	Q
CHROMIUM	46.2		0.119	MDL	0.398	PQL	mg/Kg	J	Q
COBALT	9.03		0.0199	MDL	0.0994	PQL	mg/Kg	J	Q
COPPER	9.76		0.0795	MDL	0.398	PQL	mg/Kg	J	Q
LEAD	18.9		0.0101	MDL	0.199	PQL	mg/Kg	J	Q
NICKEL	15.9		0.0994	MDL	0.398	PQL	mg/Kg	J	Q
SILVER	0.0320	J	0.0141	MDL	0.0994	PQL	mg/Kg	J	Z, Q
THALLIUM	0.248		0.0298	MDL	0.0994	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 11:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.217	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 11:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.839		0.0501	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 11:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.229		0.0742	MDL	0.200	PQL	mg/Kg	J	Q
ARSENIC	5.71		0.0802	MDL	0.401	PQL	mg/Kg	J	Q
CADMIUM	0.240		0.0441	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	37.9		0.120	MDL	0.401	PQL	mg/Kg	J	Q
COBALT	7.23		0.0200	MDL	0.100	PQL	mg/Kg	J	Q
COPPER	8.80		0.0802	MDL	0.401	PQL	mg/Kg	J	Q
LEAD	14.2		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
NICKEL	14.0		0.100	MDL	0.401	PQL	mg/Kg	J	Q
SILVER	0.0405	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.210		0.0301	MDL	0.100	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-014-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:05:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.216	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.685		0.0503	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0744	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	4.58		0.0804	MDL	0.402	PQL	mg/Kg	J	Q
CADMIUM	0.210		0.0442	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	31.3		0.121	MDL	0.402	PQL	mg/Kg	J	Q
COBALT	5.97		0.0201	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	7.35		0.0804	MDL	0.402	PQL	mg/Kg	J	Q
LEAD	11.9		0.0103	MDL	0.201	PQL	mg/Kg	J	Q
NICKEL	11.6		0.101	MDL	0.402	PQL	mg/Kg	J	Q
SILVER	0.0258	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.186		0.0302	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-015-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.241	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.779		0.0494	MDL	0.0987	PQL	mg/Kg	J	Q

Sample ID: SL-015-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.305		0.0731	MDL	0.197	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-015-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.25		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
CADMIUM	0.279		0.0434	MDL	0.0987	PQL	mg/Kg	J	Q
CHROMIUM	39.8		0.118	MDL	0.395	PQL	mg/Kg	J	Q
COBALT	8.50		0.0197	MDL	0.0987	PQL	mg/Kg	J	Q
COPPER	9.03		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
LEAD	11.6		0.0101	MDL	0.197	PQL	mg/Kg	J	Q
NICKEL	15.5		0.0987	MDL	0.395	PQL	mg/Kg	J	Q
SILVER	0.0297	J	0.0140	MDL	0.0987	PQL	mg/Kg	J	Z, Q
THALLIUM	0.233		0.0296	MDL	0.0987	PQL	mg/Kg	J	Q

Sample ID: SL-016-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:15:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.220	J	0.0604	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:15:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.726		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-016-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.287		0.0770	MDL	0.208	PQL	mg/Kg	J	Q
ARSENIC	5.99		0.0833	MDL	0.416	PQL	mg/Kg	J	Q
CADMIUM	0.286		0.0458	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	38.1		0.125	MDL	0.416	PQL	mg/Kg	J	Q
COBALT	8.95		0.0208	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	9.83		0.0833	MDL	0.416	PQL	mg/Kg	J	Q
LEAD	13.3		0.0106	MDL	0.208	PQL	mg/Kg	J	Q
NICKEL	15.7		0.104	MDL	0.416	PQL	mg/Kg	J	Q
SILVER	0.0328	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.245		0.0312	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-017-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:35:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.253	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:35:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.808		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.328		0.0745	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	6.84		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
CADMIUM	0.338		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	43.4		0.121	MDL	0.403	PQL	mg/Kg	J	Q
COBALT	10.6		0.0201	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	10.5		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
LEAD	30.0		0.0103	MDL	0.201	PQL	mg/Kg	J	Q
NICKEL	17.8		0.101	MDL	0.403	PQL	mg/Kg	J	Q
SILVER	0.0461	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.245		0.0302	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:25:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.194	J	0.0595	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:25:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.646		0.0513	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.340		0.0760	MDL	0.205	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6020			Matrix: SO					

Sample ID: SL-033-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.25		0.0821	MDL	0.411	PQL	mg/Kg	J	Q
CADMIUM	0.304		0.0452	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	42.4		0.123	MDL	0.411	PQL	mg/Kg	J	Q
COBALT	15.0		0.0205	MDL	0.103	PQL	mg/Kg	J	Q
COPPER	20.5		0.0821	MDL	0.411	PQL	mg/Kg	J	Q
LEAD	12.4		0.0105	MDL	0.205	PQL	mg/Kg	J	Q
NICKEL	28.7		0.103	MDL	0.411	PQL	mg/Kg	J	Q
SILVER	0.0371	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.448		0.0308	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.272	J	0.0598	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.548		0.0516	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.392		0.0763	MDL	0.206	PQL	mg/Kg	J	Q
ARSENIC	7.40		0.0825	MDL	0.413	PQL	mg/Kg	J	Q
CADMIUM	0.304		0.0454	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	40.0		0.124	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	13.9		0.0206	MDL	0.103	PQL	mg/Kg	J	Q
COPPER	21.6		0.0825	MDL	0.413	PQL	mg/Kg	J	Q
LEAD	12.4		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
NICKEL	27.8		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0485	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.432		0.0309	MDL	0.103	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-040-SA5DS-SS-0.0-0.5			Collected: 9/28/2011 3:05:00			Analysis Type: REA		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.188	J	0.0588	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DS-SS-0.0-0.5			Collected: 9/28/2011 3:05:00			Analysis Type: REA2		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.762		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-040-SA5DS-SS-0.0-0.5			Collected: 9/28/2011 3:05:00			Analysis Type: RES		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.258		0.0750	MDL	0.203	PQL	mg/Kg	J	Q
ARSENIC	5.98		0.0811	MDL	0.405	PQL	mg/Kg	J	Q
CADMIUM	0.217		0.0446	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	33.2		0.122	MDL	0.405	PQL	mg/Kg	J	Q
COBALT	9.83		0.0203	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	10.9		0.0811	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	14.1		0.0103	MDL	0.203	PQL	mg/Kg	J	Q
NICKEL	17.7		0.101	MDL	0.405	PQL	mg/Kg	J	Q
SILVER	0.0289	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.273		0.0304	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA7-SB-18.0-19.0			Collected: 9/28/2011 2:30:00			Analysis Type: REA		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.204	J	0.0619	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA7-SB-18.0-19.0			Collected: 9/28/2011 2:30:00			Analysis Type: REA2		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.483		0.0533	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA7-SB-18.0-19.0			Collected: 9/28/2011 2:30:00			Analysis Type: RES		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.133	J	0.0790	MDL	0.213	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-103-SA7-SB-18.0-19.0 Collected: 9/28/2011 2:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.12		0.0854	MDL	0.427	PQL	mg/Kg	J	Q
CADMIUM	0.118		0.0469	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	17.2		0.128	MDL	0.427	PQL	mg/Kg	J	Q
COBALT	5.93		0.0213	MDL	0.107	PQL	mg/Kg	J	Q
COPPER	8.28		0.0854	MDL	0.427	PQL	mg/Kg	J	Q
LEAD	5.34		0.0109	MDL	0.213	PQL	mg/Kg	J	Q
NICKEL	11.5		0.107	MDL	0.427	PQL	mg/Kg	J	Q
SILVER	0.0267	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.254		0.0320	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA7-SB-16.5-17.5 Collected: 9/28/2011 12:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0621	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-16.5-17.5 Collected: 9/28/2011 12:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.909		0.0535	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA7-SB-16.5-17.5 Collected: 9/28/2011 12:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.347		0.0792	MDL	0.214	PQL	mg/Kg	J	Q
ARSENIC	10.5		0.0856	MDL	0.428	PQL	mg/Kg	J	Q
CADMIUM	0.183		0.0471	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	31.6		0.128	MDL	0.428	PQL	mg/Kg	J	Q
COBALT	9.55		0.0214	MDL	0.107	PQL	mg/Kg	J	Q
COPPER	15.9		0.0856	MDL	0.428	PQL	mg/Kg	J	Q
LEAD	16.3		0.0109	MDL	0.214	PQL	mg/Kg	J	Q
NICKEL	19.5		0.107	MDL	0.428	PQL	mg/Kg	J	Q
SILVER	0.0434	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.414		0.0321	MDL	0.107	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-106-SA7-SB-19.0-20.0 Collected: 9/28/2011 9:50:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.213	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-19.0-20.0 Collected: 9/28/2011 9:50:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	4.43		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA7-SB-19.0-20.0 Collected: 9/28/2011 9:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0778	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	5.25		0.0841	MDL	0.420	PQL	mg/Kg	J	Q
CADMIUM	0.186		0.0462	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	28.1		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	6.42		0.0210	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	9.86		0.0841	MDL	0.420	PQL	mg/Kg	J	Q
LEAD	6.75		0.0107	MDL	0.210	PQL	mg/Kg	J	Q
NICKEL	13.8		0.105	MDL	0.420	PQL	mg/Kg	J	Q
SILVER	0.0200	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.311		0.0315	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA7-SB-4.0-5.0 Collected: 9/28/2011 12:15:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.131	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-4.0-5.0 Collected: 9/28/2011 12:15:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.511		0.0499	MDL	0.0997	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA7-SB-4.0-5.0 Collected: 9/28/2011 12:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0932	J	0.0738	MDL	0.199	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-106-SA7-SB-4.0-5.0 Collected: 9/28/2011 12:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	4.57		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
CADMIUM	0.109		0.0439	MDL	0.0997	PQL	mg/Kg	J	Q
CHROMIUM	16.3		0.120	MDL	0.399	PQL	mg/Kg	J	Q
COBALT	5.67		0.0199	MDL	0.0997	PQL	mg/Kg	J	Q
COPPER	7.35		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	5.54		0.0102	MDL	0.199	PQL	mg/Kg	J	Q
NICKEL	11.0		0.0997	MDL	0.399	PQL	mg/Kg	J	Q
SILVER	0.0241	J	0.0142	MDL	0.0997	PQL	mg/Kg	J	Z, Q
THALLIUM	0.270		0.0299	MDL	0.0997	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA7-SB-9.0-10.0 Collected: 9/28/2011 12:30:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-9.0-10.0 Collected: 9/28/2011 12:30:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.529		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA7-SB-9.0-10.0 Collected: 9/28/2011 12:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0785	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	4.88		0.0849	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.160		0.0467	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	16.5		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	6.43		0.0212	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	7.93		0.0849	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	5.51		0.0108	MDL	0.212	PQL	mg/Kg	J	Q
NICKEL	12.7		0.106	MDL	0.424	PQL	mg/Kg	J	Q
THALLIUM	0.277		0.0318	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: DUP-02-SA5DS-QC-092811 Collected: 9/28/2011 1:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.0		0.20	MDL	1.0	PQL	mg/Kg	J	FD

Sample ID: SL-008-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 7:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.20	MDL	0.99	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.68	J	0.20	MDL	0.99	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.21	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.53	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.73	J	0.19	MDL	0.97	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.21	U	0.21	MDL	1.0	PQL	mg/Kg	UJ	FD

Sample ID: SL-103-SA7-SB-18.0-19.0 Collected: 9/28/2011 2:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	7199	Matrix:							SO	

Sample ID: SL-106-SA7-SB-16.5-17.5 Collected: 9/28/2011 12:45:00 Analysis Type: RES Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	8.5	J	2.0	MDL	10.2	PQL	mg/Kg	J	Z

Method Category:	METALS									
Method:	7470A	Matrix:							AQ	

Sample ID: EB-SA5DS-SS-092811 Collected: 9/28/2011 1:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000045	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

Method Category:	METALS									
Method:	7471A	Matrix:							SO	

Sample ID: SL-007-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0121	J	0.0069	MDL	0.0981	PQL	mg/Kg	U	F

Sample ID: SL-009-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0105	J	0.0069	MDL	0.0983	PQL	mg/Kg	U	F

Sample ID: SL-010-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0133	J	0.0067	MDL	0.0947	PQL	mg/Kg	U	F

Sample ID: SL-013-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 11:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0081	J	0.0070	MDL	0.0997	PQL	mg/Kg	U	F

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-014-SA5DS-SS-0.0-0.5		Collected: 9/28/2011 10:05:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0114	J	0.0071	MDL	0.101	PQL	mg/Kg	U	F

Sample ID: SL-015-SA5DS-SS-0.0-0.5		Collected: 9/28/2011 10:45:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0472	J	0.0070	MDL	0.0991	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5DS-SS-0.0-0.5		Collected: 9/28/2011 8:35:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0238	J	0.0069	MDL	0.0978	PQL	mg/Kg	U	F

Sample ID: SL-106-SA7-SB-16.5-17.5		Collected: 9/28/2011 12:45:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0143	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-19.0-20.0		Collected: 9/28/2011 9:50:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA7-SB-9.0-10.0		Collected: 9/28/2011 12:30:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	6850	Matrix: SO

Sample ID: SL-040-SA5DS-SS-0.0-0.5		Collected: 9/28/2011 3:05:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	2.3	J	2.1	MDL	5.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: DUP-02-SA5DS-QC-092811

Collected: 9/28/2011 1:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.36		0.068	MDL	0.35	PQL	ug/Kg	J	FD
4,4'-DDT	0.46		0.068	MDL	0.35	PQL	ug/Kg	J	FD
BETA-BHC	0.13	J	0.062	MDL	0.17	PQL	ug/Kg	J	Z, FD
Chlordane	1.9	J	0.83	MDL	3.5	PQL	ug/Kg	J	Z, FD
ENDRIN ALDEHYDE	0.13	J	0.068	MDL	0.35	PQL	ug/Kg	J	Z, FD
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	FD

Sample ID: SL-007-SA5DS-SS-0.0-0.5

Collected: 9/28/2011 8:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.78		0.067	MDL	0.34	PQL	ug/Kg	J	S
4,4'-DDT	0.64		0.067	MDL	0.34	PQL	ug/Kg	J	S
Chlordane	1.9	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S

Sample ID: SL-008-SA5DS-SS-0.0-0.5

Collected: 9/28/2011 7:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.9	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
DELTA-BHC	0.038	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5DS-SS-0.0-0.5

Collected: 9/28/2011 9:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.31	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
Chlordane	2.0	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
DELTA-BHC	0.071	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.089	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5DS-SS-0.0-0.5

Collected: 9/28/2011 8:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.078	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z
Chlordane	3.0	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
DELTA-BHC	0.061	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8081A	Matrix:	SO
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Sample ID: SL-013-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 11:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.7	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.7	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.24	J	0.068	MDL	0.35	PQL	ug/Kg	J	Z
4,4'-DDT	0.31	J	0.068	MDL	0.35	PQL	ug/Kg	J	Z
Chlordane	1.8	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.076	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z
Chlordane	2.5	J	0.84	MDL	3.6	PQL	ug/Kg	J	Z
HEPTACHLOR	0.077	J	0.063	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
4,4'-DDE	2.2		0.067	MDL	0.35	PQL	ug/Kg	J	S
4,4'-DDT	2.9		0.067	MDL	0.35	PQL	ug/Kg	J	S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	4.4		0.81	MDL	3.5	PQL	ug/Kg	J	S
DELTA-BHC	0.048	U	0.048	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.23	U	0.23	MDL	0.35	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.071	U	0.071	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.26	U	0.26	MDL	0.35	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: SL-017-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN	0.13	U	0.13	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.99		0.067	MDL	0.35	PQL	ug/Kg	J	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.081	U	0.081	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.26	U	0.26	MDL	0.35	PQL	ug/Kg	UJ	S
TOXAPHENE	18	U	18	MDL	18	PQL	ug/Kg	UJ	S

Sample ID: SL-034-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.10	J	0.069	MDL	0.35	PQL	ug/Kg	J	Z, FD
4,4'-DDT	0.22	J	0.069	MDL	0.35	PQL	ug/Kg	J	Z, FD
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	FD
Chlordane	0.90	J	0.83	MDL	3.5	PQL	ug/Kg	J	Z, FD
ENDRIN ALDEHYDE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	FD
gamma-BHC (Lindane)	0.038	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, FD

Sample ID: SL-040-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 3:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.081	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.053	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: DUP-02-SA5DS-QC-092811 Collected: 9/28/2011 1:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOR 1254	0.62	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: SL-007-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.5	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-008-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 7:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.6	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	3.1	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2.0		0.34	MDL	1.7	PQL	ug/Kg	J	S
AROCLOR 1260	1.8		0.40	MDL	1.7	PQL	ug/Kg	J	S
Aroclor 5460	3.5		1.0	MDL	3.4	PQL	ug/Kg	J	S

Sample ID: SL-010-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.2	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	3.1	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 11:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, S
Aroclor 5460	1.9	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S

Sample ID: SL-014-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.92	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	0.92	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.4	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-015-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.5		0.34	MDL	1.7	PQL	ug/Kg	J	S
Aroclor 5460	1.5	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S

Sample ID: SL-016-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	2.2		0.41	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5460	2.9	J	1.0	MDL	3.5	PQL	ug/Kg	J	Z, S

Sample ID: SL-017-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	9.3		0.40	MDL	1.7	PQL	ug/Kg	J	S
Aroclor 5460	5.9		1.0	MDL	3.4	PQL	ug/Kg	J	S

Sample ID: SL-033-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2.6		0.34	MDL	1.8	PQL	ug/Kg	J	S

Sample ID: SL-034-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-040-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 3:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.85	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.5	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.9	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA7-SB-18.0-19.0 Collected: 9/28/2011 2:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.49	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Matrix:	SO
Method:	8082		

Sample ID: SL-106-SA7-SB-4.0-5.0 Collected: 9/28/2011 12:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.5	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S
AROCLOR 1254	1.1	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S
AROCLOR 1260	1.1	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z, S

Sample ID: SL-106-SA7-SB-9.0-10.0 Collected: 9/28/2011 12:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.45	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z, S
AROCLOR 1260	0.71	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z, S

Method Category:	SVOA	Matrix:	SO
Method:	8151A		

Sample ID: DUP-02-SA5DS-QC-092811 Collected: 9/28/2011 1:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.23	U	0.23	MDL	0.23	PQL	ug/Kg	UJ	FD

Sample ID: SL-014-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	1.0	J	0.81	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-034-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.44		0.078	MDL	0.18	PQL	ug/Kg	J	Q, FD

Method Category:	SVOA	Matrix:	AQ
Method:	8270C		

Sample ID: EB-SA5DS-SS-092811 Collected: 9/28/2011 1:00:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: AQ

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: DUP-02-SA5DS-QC-092811 Collected: 9/28/2011 1:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	48	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-034-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q

Method Category:	SVOA	
Method:	8270C SIM	Matrix: AQ

Sample ID: EB-SA5DS-SS-092811 Collected: 9/28/2011 1:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.11	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Diethylphthalate	0.36	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.74	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.12	J	0.053	MDL	1.1	PQL	ug/L	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: DUP-02-SA5DS-QC-092811 Collected: 9/28/2011 1:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.7	J	0.68	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-007-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.0	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	0.84	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-007-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-008-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 7:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.87	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	6.0	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.77	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.77	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.84	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.5	J	6.0	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.96	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.89	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.84	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.90	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8270C SIM	Matrix:	SO

Sample ID: SL-013-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 11:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.74	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.5	J	6.0	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	0.81	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.73	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.75	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.68	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.80	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 10:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.88	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.1	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.69	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.85	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.2	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/12/2012 11:50:38 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-016-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 9:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	0.81	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 8:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.68	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.0	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.67	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.95	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.96	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-034-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 1:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-040-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 3:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.77	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.0	MDL	18	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-040-SA5DS-SS-0.0-0.5 Collected: 9/28/2011 3:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	8.8	J	6.0	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	1.4	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA7-SB-18.0-19.0 Collected: 9/28/2011 2:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.69	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-106-SA7-SB-16.5-17.5 Collected: 9/28/2011 12:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.8	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-106-SA7-SB-19.0-20.0 Collected: 9/28/2011 9:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.3	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.3	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-106-SA7-SB-4.0-5.0 Collected: 9/28/2011 12:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.70	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.72	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-106-SA7-SB-9.0-10.0 Collected: 9/28/2011 12:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.82	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA
Method: 8315A **Matrix:** SO

Sample ID: SL-106-SA7-SB-19.0-20.0 Collected: 9/28/2011 9:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	1200	J	640	MDL	1600	PQL	ug/Kg	J	Z

Method Category: VOA
Method: 8260B **Matrix:** SO

Sample ID: SL-106-SA7-SB-15.5 Collected: 9/28/2011 9:33:00 Analysis Type: RES Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	2.9	J	1.3	MDL	8.3	PQL	ug/Kg	J	Z
ETHYLBENZENE	0.08	J	0.06	MDL	4.2	PQL	ug/Kg	J	Z
m,p-Xylene	0.32	J	0.18	MDL	4.2	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.72	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.42	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE257

Method Blank Outlier Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27848CB222339	10/9/2011 11:39:00 PM	STRONTIUM	0.00022 mg/L	EB-SA5DS-SS-092811

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27208BB220426	10/12/2011 4:26:00 AM	IRON TITANIUM	24.7 mg/Kg 0.112 mg/Kg	DUP-02-SA5DS-QC-092811 SL-007-SA5DS-SS-0.0-0.5 SL-008-SA5DS-SS-0.0-0.5 SL-009-SA5DS-SS-0.0-0.5 SL-010-SA5DS-SS-0.0-0.5 SL-013-SA5DS-SS-0.0-0.5 SL-014-SA5DS-SS-0.0-0.5 SL-015-SA5DS-SS-0.0-0.5 SL-016-SA5DS-SS-0.0-0.5 SL-017-SA5DS-SS-0.0-0.5 SL-033-SA5DS-SS-0.0-0.5 SL-034-SA5DS-SS-0.0-0.5 SL-040-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-18.0-19.0 SL-106-SA7-SB-16.5-17.5 SL-106-SA7-SB-19.0-20.0 SL-106-SA7-SB-4.0-5.0 SL-106-SA7-SB-9.0-10.0
P27208BB221406	10/11/2011 2:06:00 PM	ALUMINUM BORON CALCIUM MAGNESIUM MANGANESE PHOSPHORUS POTASSIUM STRONTIUM TIN	10.2 mg/Kg 0.529 mg/Kg 41.1 mg/Kg 31.2 mg/Kg 0.174 mg/Kg 1.50 mg/Kg 11.5 mg/Kg 0.0670 mg/Kg 1.53 mg/Kg	DUP-02-SA5DS-QC-092811 SL-007-SA5DS-SS-0.0-0.5 SL-008-SA5DS-SS-0.0-0.5 SL-009-SA5DS-SS-0.0-0.5 SL-010-SA5DS-SS-0.0-0.5 SL-013-SA5DS-SS-0.0-0.5 SL-014-SA5DS-SS-0.0-0.5 SL-015-SA5DS-SS-0.0-0.5 SL-016-SA5DS-SS-0.0-0.5 SL-017-SA5DS-SS-0.0-0.5 SL-033-SA5DS-SS-0.0-0.5 SL-034-SA5DS-SS-0.0-0.5 SL-040-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-18.0-19.0 SL-106-SA7-SB-16.5-17.5 SL-106-SA7-SB-19.0-20.0 SL-106-SA7-SB-4.0-5.0 SL-106-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-02-SA5DS-QC-092811(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-007-SA5DS-SS-0.0-0.5(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-008-SA5DS-SS-0.0-0.5(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-009-SA5DS-SS-0.0-0.5(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-010-SA5DS-SS-0.0-0.5(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-013-SA5DS-SS-0.0-0.5(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-014-SA5DS-SS-0.0-0.5(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-015-SA5DS-SS-0.0-0.5(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-016-SA5DS-SS-0.0-0.5(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-017-SA5DS-SS-0.0-0.5(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-033-SA5DS-SS-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-040-SA5DS-SS-0.0-0.5(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SL-103-SA7-SB-18.0-19.0(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-106-SA7-SB-16.5-17.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-106-SA7-SB-19.0-20.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-106-SA7-SB-4.0-5.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-106-SA7-SB-9.0-10.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27226BB221116A	9/30/2011 11:16:00 AM	LEAD	0.0226 mg/Kg	DUP-02-SA5DS-QC-092811 SL-007-SA5DS-SS-0.0-0.5 SL-008-SA5DS-SS-0.0-0.5 SL-009-SA5DS-SS-0.0-0.5 SL-010-SA5DS-SS-0.0-0.5 SL-013-SA5DS-SS-0.0-0.5 SL-014-SA5DS-SS-0.0-0.5 SL-015-SA5DS-SS-0.0-0.5 SL-016-SA5DS-SS-0.0-0.5 SL-017-SA5DS-SS-0.0-0.5 SL-033-SA5DS-SS-0.0-0.5 SL-034-SA5DS-SS-0.0-0.5 SL-040-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-18.0-19.0 SL-106-SA7-SB-16.5-17.5 SL-106-SA7-SB-19.0-20.0 SL-106-SA7-SB-4.0-5.0 SL-106-SA7-SB-9.0-10.0

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27813AB220856	10/6/2011 8:56:00 AM	MERCURY	0.000042 mg/L	EB-SA5DS-SS-092811

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DS-SS-092811(RES)	MERCURY	0.000045 mg/L	0.000045U mg/L

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB75B211352A	10/4/2011 1:52:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.20 ug/Kg 0.57 ug/Kg	SL-106-SA7-SB-15.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-106-SA7-SB-15.5(RES)	METHYLENE CHLORIDE	0.72 ug/Kg	4.2U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SS-0.0-0.5MS SL-034-SA5DS-SS-0.0-0.5MSD (DUP-02-SA5DS-QC-092811 SL-007-SA5DS-SS-0.0-0.5 SL-008-SA5DS-SS-0.0-0.5 SL-009-SA5DS-SS-0.0-0.5 SL-010-SA5DS-SS-0.0-0.5 SL-013-SA5DS-SS-0.0-0.5 SL-014-SA5DS-SS-0.0-0.5 SL-015-SA5DS-SS-0.0-0.5 SL-016-SA5DS-SS-0.0-0.5 SL-017-SA5DS-SS-0.0-0.5 SL-033-SA5DS-SS-0.0-0.5 SL-034-SA5DS-SS-0.0-0.5 SL-040-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-18.0-19.0 SL-106-SA7-SB-16.5-17.5 SL-106-SA7-SB-19.0-20.0 SL-106-SA7-SB-4.0-5.0 SL-106-SA7-SB-9.0-10.0)	MOLYBDENUM	132	132	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-034-SA5DS-SS-0.0-0.5MS SL-034-SA5DS-SS-0.0-0.5MSD (DUP-02-SA5DS-QC-092811 SL-007-SA5DS-SS-0.0-0.5 SL-008-SA5DS-SS-0.0-0.5 SL-009-SA5DS-SS-0.0-0.5 SL-010-SA5DS-SS-0.0-0.5 SL-013-SA5DS-SS-0.0-0.5 SL-014-SA5DS-SS-0.0-0.5 SL-015-SA5DS-SS-0.0-0.5 SL-016-SA5DS-SS-0.0-0.5 SL-017-SA5DS-SS-0.0-0.5 SL-033-SA5DS-SS-0.0-0.5 SL-034-SA5DS-SS-0.0-0.5 SL-040-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-18.0-19.0 SL-106-SA7-SB-16.5-17.5 SL-106-SA7-SB-19.0-20.0 SL-106-SA7-SB-4.0-5.0 SL-106-SA7-SB-9.0-10.0)	BARIUM	-299	-318	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SS-0.0-0.5MS SL-034-SA5DS-SS-0.0-0.5MSD (DUP-02-SA5DS-QC-092811 SL-007-SA5DS-SS-0.0-0.5 SL-008-SA5DS-SS-0.0-0.5 SL-009-SA5DS-SS-0.0-0.5 SL-010-SA5DS-SS-0.0-0.5 SL-013-SA5DS-SS-0.0-0.5 SL-014-SA5DS-SS-0.0-0.5 SL-015-SA5DS-SS-0.0-0.5 SL-016-SA5DS-SS-0.0-0.5 SL-017-SA5DS-SS-0.0-0.5 SL-033-SA5DS-SS-0.0-0.5 SL-034-SA5DS-SS-0.0-0.5 SL-040-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-18.0-19.0 SL-106-SA7-SB-16.5-17.5 SL-106-SA7-SB-19.0-20.0 SL-106-SA7-SB-4.0-5.0 SL-106-SA7-SB-9.0-10.0)	ALUMINIUM MAGNESIUM POTASSIUM TITANIUM	2353 134 146 412	2665 182 161 508	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINIUM MAGNESIUM POTASSIUM TITANIUM	No Qual, >4x
SL-034-SA5DS-SS-0.0-0.5MS SL-034-SA5DS-SS-0.0-0.5MSD (DUP-02-SA5DS-QC-092811 SL-007-SA5DS-SS-0.0-0.5 SL-008-SA5DS-SS-0.0-0.5 SL-009-SA5DS-SS-0.0-0.5 SL-010-SA5DS-SS-0.0-0.5 SL-013-SA5DS-SS-0.0-0.5 SL-014-SA5DS-SS-0.0-0.5 SL-015-SA5DS-SS-0.0-0.5 SL-016-SA5DS-SS-0.0-0.5 SL-017-SA5DS-SS-0.0-0.5 SL-033-SA5DS-SS-0.0-0.5 SL-034-SA5DS-SS-0.0-0.5 SL-040-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-18.0-19.0 SL-106-SA7-SB-16.5-17.5 SL-106-SA7-SB-19.0-20.0 SL-106-SA7-SB-4.0-5.0 SL-106-SA7-SB-9.0-10.0)	CALCIUM IRON	29 -314	- 1817	75.00-125.00 75.00-125.00	- -	CALCIUM IRON	No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SS-0.0-0.5MSD (SL-034-SA5DS-SS-0.0-0.5)	2-CHLORONAPHTHALENE	-	-	50.00-141.00	33 (30.00)	2-CHLORONAPHTHALENE	J(all detects)
SL-034-SA5DS-SS-0.0-0.5MS SL-034-SA5DS-SS-0.0-0.5MSD (SL-034-SA5DS-SS-0.0-0.5)	BENZIDINE	14	0	35.00-141.00	200 (30.00)	BENZIDINE	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-103-SA7-SB-18.0-19.0MS (SL-007-SA5DS-SS-0.0-0.5 SL-008-SA5DS-SS-0.0-0.5 SL-009-SA5DS-SS-0.0-0.5 SL-010-SA5DS-SS-0.0-0.5 SL-013-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-18.0-19.0 SL-106-SA7-SB-16.5-17.5 SL-106-SA7-SB-19.0-20.0 SL-106-SA7-SB-4.0-5.0 SL-106-SA7-SB-9.0-10.0)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-034-SA5DS-SS-0.0-0.5DUP (DUP-02-SA5DS-QC-092811 SL -007-SA5DS-SS-0.0-0.5 SL -008-SA5DS-SS-0.0-0.5 SL -009-SA5DS-SS-0.0-0.5 SL -010-SA5DS-SS-0.0-0.5 SL -013-SA5DS-SS-0.0-0.5 SL -014-SA5DS-SS-0.0-0.5 SL -015-SA5DS-SS-0.0-0.5 SL -016-SA5DS-SS-0.0-0.5 SL -017-SA5DS-SS-0.0-0.5 SL -033-SA5DS-SS-0.0-0.5 SL -034-SA5DS-SS-0.0-0.5 SL -040-SA5DS-SS-0.0-0.5 SL -103-SA7-SB-18.0-19.0 SL -106-SA7-SB-16.5-17.5 SL -106-SA7-SB-19.0-20.0 SL -106-SA7-SB-4.0-5.0 SL -106-SA7-SB-9.0-10.0)	SILVER	26	20.00	No Qual, OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-034-SA5DS-SS-0.0-0.5DUP (DUP-02-SA5DS-QC-092811 SL -007-SA5DS-SS-0.0-0.5 SL -008-SA5DS-SS-0.0-0.5 SL -009-SA5DS-SS-0.0-0.5 SL -010-SA5DS-SS-0.0-0.5 SL -013-SA5DS-SS-0.0-0.5 SL -014-SA5DS-SS-0.0-0.5 SL -015-SA5DS-SS-0.0-0.5 SL -016-SA5DS-SS-0.0-0.5 SL -017-SA5DS-SS-0.0-0.5 SL -033-SA5DS-SS-0.0-0.5 SL -034-SA5DS-SS-0.0-0.5 SL -040-SA5DS-SS-0.0-0.5 SL -103-SA7-SB-18.0-19.0 SL -106-SA7-SB-16.5-17.5 SL -106-SA7-SB-19.0-20.0 SL -106-SA7-SB-4.0-5.0 SL -106-SA7-SB-9.0-10.0)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-103-SA7-SB-18.0-19.0DUP (SL-007-SA5DS-SS-0.0-0.5 SL-008-SA5DS-SS-0.0-0.5 SL-009-SA5DS-SS-0.0-0.5 SL-010-SA5DS-SS-0.0-0.5 SL-013-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-18.0-19.0 SL-106-SA7-SB-16.5-17.5 SL-106-SA7-SB-19.0-20.0 SL-106-SA7-SB-4.0-5.0 SL-106-SA7-SB-9.0-10.0)	FLUORIDE	25	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P6WCLCSQ261423 (EB-SA5DS-SS-092811)	BIS(2-CHLOROETHYL) ETHER NITROBENZENE	109 111	-	77.00-108.00 75.00-109.00	-	BIS(2-CHLOROETHYL) ETHER NITROBENZENE	J(all detects)
P6WCLCSY261448 (EB-SA5DS-SS-092811)	BENZOIC ACID	-	-	10.00-69.00	82 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27208BQ221410 (DUP-02-SA5DS-QC-092811 SL-007-SA5DS-SS-0.0-0.5 SL-008-SA5DS-SS-0.0-0.5 SL-009-SA5DS-SS-0.0-0.5 SL-010-SA5DS-SS-0.0-0.5 SL-013-SA5DS-SS-0.0-0.5 SL-014-SA5DS-SS-0.0-0.5 SL-015-SA5DS-SS-0.0-0.5 SL-016-SA5DS-SS-0.0-0.5 SL-017-SA5DS-SS-0.0-0.5 SL-033-SA5DS-SS-0.0-0.5 SL-034-SA5DS-SS-0.0-0.5 SL-040-SA5DS-SS-0.0-0.5 SL-103-SA7-SB-18.0-19.0 SL-106-SA7-SB-16.5-17.5 SL-106-SA7-SB-19.0-20.0 SL-106-SA7-SB-4.0-5.0 SL-106-SA7-SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM	145 133 122	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON MAGNESIUM	No Qual, SRM within Limits

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB75Y211440A (SL-106-SA7-SB-15.5)	1,1,2-TRICHLORO-1,2,2-TRIFLU	-	127	61.00-126.00	-	1,1,2-TRICHLORO-1,2,2-TRIFL	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: PrepDE257_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-007-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	127	20.00-120.00	All Target Analytes	J (all detects)
SL-017-SA5DS-SS-0.0-0.5	TETRACHLORO-M-XYLENE	45	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-009-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	137	45.00-120.00	All Target Analytes	J(all detects)
SL-013-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	141	45.00-120.00	All Target Analytes	J(all detects)
SL-015-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	137	45.00-120.00	All Target Analytes	J(all detects)
SL-016-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	127	45.00-120.00	All Target Analytes	J(all detects)
SL-017-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)
SL-033-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	132	45.00-120.00	All Target Analytes	J(all detects)
SL-034-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	148	45.00-120.00	All Target Analytes	J(all detects)
SL-034-SA5DS-SS-0.0-0.5RLLCS	DECACHLOROBIPHENYL	152	45.00-120.00	All Target Analytes	Not Validated
SL-034-SA5DS-SS-0.0-0.5RLMS	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	171 155	45.00-120.00 53.00-139.00	All Target Analytes	Not Validated
SL-106-SA7-SB-16.5-17.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	124 143	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-106-SA7-SB-4.0-5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	149 176	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-106-SA7-SB-9.0-10.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	136 144	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 100.311
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
MOISTURE	4.0	3.8	5		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
FLUORIDE	1.4	1.3	7	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
ALUMINUM	31900	30100	6	50.00	No Qualifiers Applied
BORON	15.5	14.9	4	50.00	
CALCIUM	9210	8920	3	50.00	
IRON	37400	35800	4	50.00	
LITHIUM	31.6	30.4	4	50.00	
MAGNESIUM	8840	8650	2	50.00	
MANGANESE	370	353	5	50.00	
PHOSPHORUS	511	533	4	50.00	
POTASSIUM	4980	5030	1	50.00	
SODIUM	100	99.2	1	50.00	
STRONTIUM	40.3	39.1	3	50.00	
TIN	2.95	2.82	5	50.00	
TITANIUM	1540	1440	7	50.00	
Zirconium	4.78	4.15	14	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
ANTIMONY	0.392	0.330	17	50.00	No Qualifiers Applied
ARSENIC	7.40	7.53	2	50.00	
BARIUM	182	134	30	50.00	
BERYLLIUM	1.16	1.08	7	50.00	
CADMIUM	0.304	0.277	9	50.00	
CHROMIUM	40.0	40.4	1	50.00	
COBALT	13.9	14.2	2	50.00	
COPPER	21.6	21.8	1	50.00	
LEAD	12.4	12.7	2	50.00	
MOLYBDENUM	0.548	0.543	1	50.00	
NICKEL	27.8	28.0	1	50.00	
SELENIUM	0.272	0.267	2	50.00	
SILVER	0.0485	0.0420	14	50.00	
THALLIUM	0.432	0.448	4	50.00	
VANADIUM	79.0	81.1	3	50.00	
ZINC	102	99.6	2	50.00	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
HEXAVALENT CHROMIUM	1.0 U	1.0	200	50.00	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
4,4'-DDE	0.10	0.36	113	50.00	J(all detects) UJ(all non-detects)
4,4'-DDT	0.22	0.46	71	50.00	
BETA-BHC	0.17 U	0.13	200	50.00	
Chlordane	0.90	1.9	71	50.00	
ENDRIN ALDEHYDE	0.35 U	0.13	200	50.00	
gamma-BHC (Lindane)	0.038	0.17 U	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
AROCLOR 1254	1.8 U	0.62	200	50.00	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
2,4,5-TP (Silvex)	0.44	0.23 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
BENZO(B)FLUORANTHENE	1.0	1.7	52	50.00	J(all detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
PH	7.61	7.31	4	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SS-092811	BORON	J	0.0025	0.0500	PQL	mg/L	J (all detects)
		J	0.0105	0.100	PQL	mg/L	

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SS-092811	CADMIUM	J	0.00022	0.00050	PQL	mg/L	J (all detects)

Method: 7470A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SS-092811	MERCURY	J	0.000045	0.00020	PQL	mg/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SS-092811	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.11	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.36	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.74	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.12	1.1	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5DS-SS-0.0-0.5	FLUORIDE	J	0.93	1.0	PQL	mg/Kg	J (all detects)
SL-106-SA7-SB-4.0-5.0	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-02-SA5DS-QC-092811	SODIUM TIN Zirconium	J	99.2	103	PQL	mg/Kg	J (all detects)
		J	2.82	10.3	PQL	mg/Kg	
		J	4.15	5.15	PQL	mg/Kg	
SL-007-SA5DS-SS-0.0-0.5	SODIUM TIN	J	87.7	101	PQL	mg/Kg	J (all detects)
		J	2.67	10.1	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5DS-SS-0.0-0.5	BORON	J	4.38	5.00	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.5	99.9	PQL	mg/Kg	
	TIN	J	2.57	9.99	PQL	mg/Kg	
	Zirconium	J	0.970	5.00	PQL	mg/Kg	
SL-009-SA5DS-SS-0.0-0.5	SODIUM	J	88.4	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	10.2	PQL	mg/Kg	
SL-010-SA5DS-SS-0.0-0.5	SODIUM	J	91.2	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.63	10.0	PQL	mg/Kg	
SL-013-SA5DS-SS-0.0-0.5	SODIUM	J	85.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	10.1	PQL	mg/Kg	
	Zirconium	J	3.72	5.06	PQL	mg/Kg	
SL-014-SA5DS-SS-0.0-0.5	SODIUM	J	93.6	99.5	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	9.95	PQL	mg/Kg	
	Zirconium	J	2.65	4.98	PQL	mg/Kg	
SL-015-SA5DS-SS-0.0-0.5	SODIUM	J	84.7	98.7	PQL	mg/Kg	J (all detects)
	TIN	J	2.74	9.87	PQL	mg/Kg	
SL-016-SA5DS-SS-0.0-0.5	SODIUM	J	80.5	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	10.3	PQL	mg/Kg	
	Zirconium	J	4.97	5.15	PQL	mg/Kg	
SL-017-SA5DS-SS-0.0-0.5	SODIUM	J	97.7	99.7	PQL	mg/Kg	J (all detects)
	TIN	J	2.83	9.97	PQL	mg/Kg	
SL-033-SA5DS-SS-0.0-0.5	TIN	J	2.66	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.67	5.18	PQL	mg/Kg	
SL-034-SA5DS-SS-0.0-0.5	SODIUM	J	100	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.3	PQL	mg/Kg	
	Zirconium	J	4.78	5.16	PQL	mg/Kg	
SL-040-SA5DS-SS-0.0-0.5	SODIUM	J	83.6	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.42	10.0	PQL	mg/Kg	
	Zirconium	J	3.49	5.02	PQL	mg/Kg	
SL-103-SA7-SB-18.0-19.0	TIN	J	2.67	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.67	5.28	PQL	mg/Kg	
SL-106-SA7-SB-16.5-17.5	TIN	J	2.89	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.46	5.30	PQL	mg/Kg	
SL-106-SA7-SB-19.0-20.0	TIN	J	2.77	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.26	5.20	PQL	mg/Kg	
SL-106-SA7-SB-4.0-5.0	TIN	J	2.55	10.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.809	5.04	PQL	mg/Kg	
SL-106-SA7-SB-9.0-10.0	BORON	J	4.42	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	10.5	PQL	mg/Kg	
	Zirconium	J	1.01	5.25	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-02-SA5DS-QC-092811	SELENIUM	J	0.267	0.400	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0420	0.100	PQL	mg/Kg	
SL-007-SA5DS-SS-0.0-0.5	SELENIUM	J	0.204	0.390	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0242	0.0976	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.105	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0809	0.396	PQL	mg/Kg	
	SILVER	J	0.0787	0.0990	PQL	mg/Kg	
SL-009-SA5DS-SS-0.0-0.5	SELENIUM	J	0.222	0.398	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0309	0.0995	PQL	mg/Kg	
SL-010-SA5DS-SS-0.0-0.5	SELENIUM	J	0.252	0.398	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0320	0.0994	PQL	mg/Kg	
SL-013-SA5DS-SS-0.0-0.5	SELENIUM	J	0.217	0.401	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0405	0.100	PQL	mg/Kg	
SL-014-SA5DS-SS-0.0-0.5	SELENIUM	J	0.216	0.402	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0258	0.101	PQL	mg/Kg	
SL-015-SA5DS-SS-0.0-0.5	SELENIUM	J	0.241	0.395	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0297	0.0987	PQL	mg/Kg	
SL-016-SA5DS-SS-0.0-0.5	SELENIUM	J	0.220	0.416	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0328	0.104	PQL	mg/Kg	
SL-017-SA5DS-SS-0.0-0.5	SELENIUM	J	0.253	0.403	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0461	0.101	PQL	mg/Kg	
SL-033-SA5DS-SS-0.0-0.5	SELENIUM	J	0.194	0.411	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0371	0.103	PQL	mg/Kg	
SL-034-SA5DS-SS-0.0-0.5	SELENIUM	J	0.272	0.413	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0485	0.103	PQL	mg/Kg	
SL-040-SA5DS-SS-0.0-0.5	SELENIUM	J	0.188	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0289	0.101	PQL	mg/Kg	
SL-103-SA7-SB-18.0-19.0	ANTIMONY	J	0.133	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.204	0.427	PQL	mg/Kg	
	SILVER	J	0.0267	0.107	PQL	mg/Kg	
SL-106-SA7-SB-16.5-17.5	SELENIUM	J	0.210	0.428	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0434	0.107	PQL	mg/Kg	
SL-106-SA7-SB-19.0-20.0	ANTIMONY	J	0.143	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.213	0.420	PQL	mg/Kg	
	SILVER	J	0.0200	0.105	PQL	mg/Kg	
SL-106-SA7-SB-4.0-5.0	ANTIMONY	J	0.0932	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.131	0.399	PQL	mg/Kg	
	SILVER	J	0.0241	0.0997	PQL	mg/Kg	
SL-106-SA7-SB-9.0-10.0	ANTIMONY	J	0.127	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.160	0.424	PQL	mg/Kg	

Method: 6850
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5DS-SS-0.0-0.5	PERCHLORATE	J	2.3	5.1	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.48	0.99	PQL	mg/Kg	J (all detects)
SL-009-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.68	0.99	PQL	mg/Kg	J (all detects)
SL-010-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.21	1.0	PQL	mg/Kg	J (all detects)
SL-014-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.53	1.0	PQL	mg/Kg	J (all detects)
SL-016-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.73	0.97	PQL	mg/Kg	J (all detects)
SL-103-SA7-SB-18.0-19.0	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)
SL-106-SA7-SB-16.5-17.5	HEXAVALENT CHROMIUM	J	8.5	10.2	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DS-SS-0.0-0.5	MERCURY	J	0.0121	0.0981	PQL	mg/Kg	J (all detects)
SL-009-SA5DS-SS-0.0-0.5	MERCURY	J	0.0105	0.0983	PQL	mg/Kg	J (all detects)
SL-010-SA5DS-SS-0.0-0.5	MERCURY	J	0.0133	0.0947	PQL	mg/Kg	J (all detects)
SL-013-SA5DS-SS-0.0-0.5	MERCURY	J	0.0081	0.0997	PQL	mg/Kg	J (all detects)
SL-014-SA5DS-SS-0.0-0.5	MERCURY	J	0.0114	0.101	PQL	mg/Kg	J (all detects)
SL-015-SA5DS-SS-0.0-0.5	MERCURY	J	0.0472	0.0991	PQL	mg/Kg	J (all detects)
SL-017-SA5DS-SS-0.0-0.5	MERCURY	J	0.0238	0.0978	PQL	mg/Kg	J (all detects)
SL-106-SA7-SB-16.5-17.5	MERCURY	J	0.0143	0.102	PQL	mg/Kg	J (all detects)
SL-106-SA7-SB-19.0-20.0	MERCURY	J	0.0073	0.102	PQL	mg/Kg	J (all detects)
SL-106-SA7-SB-9.0-10.0	MERCURY	J	0.0073	0.102	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-02-SA5DS-QC-092811	BETA-BHC	J	0.13	0.17	PQL	ug/Kg	J (all detects)
	Chlordane	J	1.9	3.5	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	0.13	0.35	PQL	ug/Kg	
SL-007-SA5DS-SS-0.0-0.5	Chlordane	J	1.9	3.4	PQL	ug/Kg	J (all detects)
SL-008-SA5DS-SS-0.0-0.5	Chlordane	J	1.9	3.4	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.038	0.17	PQL	ug/Kg	
SL-009-SA5DS-SS-0.0-0.5	4,4'-DDE	J	0.31	0.34	PQL	ug/Kg	J (all detects)
	Chlordane	J	2.0	3.4	PQL	ug/Kg	
	DELTA-BHC	J	0.071	0.17	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	0.089	0.34	PQL	ug/Kg	
SL-010-SA5DS-SS-0.0-0.5	BETA-BHC	J	0.078	0.17	PQL	ug/Kg	J (all detects)
	Chlordane	J	3.0	3.4	PQL	ug/Kg	
	DELTA-BHC	J	0.061	0.17	PQL	ug/Kg	
SL-013-SA5DS-SS-0.0-0.5	Chlordane	J	1.7	3.5	PQL	ug/Kg	J (all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5DS-SS-0.0-0.5	Chlordane	J	1.7	3.4	PQL	ug/Kg	J (all detects)
SL-015-SA5DS-SS-0.0-0.5	4,4'-DDE	J	0.24	0.35	PQL	ug/Kg	J (all detects)
	4,4'-DDT	J	0.31	0.35	PQL	ug/Kg	
	Chlordane	J	1.8	3.5	PQL	ug/Kg	
SL-016-SA5DS-SS-0.0-0.5	ALPHA-BHC	J	0.076	0.17	PQL	ug/Kg	J (all detects)
	Chlordane	J	2.5	3.6	PQL	ug/Kg	
	HEPTACHLOR	J	0.077	0.17	PQL	ug/Kg	
SL-034-SA5DS-SS-0.0-0.5	4,4'-DDE	J	0.10	0.35	PQL	ug/Kg	J (all detects)
	4,4'-DDT	J	0.22	0.35	PQL	ug/Kg	
	Chlordane	J	0.90	3.5	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.038	0.17	PQL	ug/Kg	
SL-040-SA5DS-SS-0.0-0.5	BETA-BHC	J	0.081	0.17	PQL	ug/Kg	J (all detects)
	gamma-BHC (Lindane)	J	0.053	0.17	PQL	ug/Kg	

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-02-SA5DS-QC-092811	AROCLOR 1254	J	0.62	1.8	PQL	ug/Kg	J (all detects)
SL-007-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.5	1.7	PQL	ug/Kg	
SL-008-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.1	3.3	PQL	ug/Kg	
SL-010-SA5DS-SS-0.0-0.5	AROCLOR 1260	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.1	3.3	PQL	ug/Kg	
SL-013-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.9	3.4	PQL	ug/Kg	
SL-014-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	0.92	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.92	1.7	PQL	ug/Kg	
	Aroclor 5460	J	2.4	3.3	PQL	ug/Kg	
SL-015-SA5DS-SS-0.0-0.5	Aroclor 5460	J	1.5	3.4	PQL	ug/Kg	J (all detects)
SL-016-SA5DS-SS-0.0-0.5	Aroclor 5460	J	2.9	3.5	PQL	ug/Kg	J (all detects)
SL-040-SA5DS-SS-0.0-0.5	AROCLOR 1254	J	0.85	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.5	1.7	PQL	ug/Kg	
	Aroclor 5460	J	2.9	3.3	PQL	ug/Kg	
SL-103-SA7-SB-18.0-19.0	AROCLOR 1254	J	0.49	1.9	PQL	ug/Kg	J (all detects)
SL-106-SA7-SB-4.0-5.0	AROCLOR 1248	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1254	J	1.1	1.8	PQL	ug/Kg	
	AROCLOR 1260	J	1.1	1.8	PQL	ug/Kg	
SL-106-SA7-SB-9.0-10.0	AROCLOR 1254	J	0.45	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.71	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5DS-SS-0.0-0.5	DICHLOROPROP	J	1.0	1.7	PQL	ug/Kg	J (all detects)

Method: 8260B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-106-SA7-SB-15.5	2-BUTANONE (MEK)	J	2.9	8.3	PQL	ug/Kg	J (all detects)
	ETHYLBENZENE	J	0.08	4.2	PQL	ug/Kg	
	m,p-Xylene	J	0.32	4.2	PQL	ug/Kg	
	METHYLENE CHLORIDE	J	0.72	4.2	PQL	ug/Kg	
	TOLUENE	J	0.42	4.2	PQL	ug/Kg	

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-02-SA5DS-QC-092811	BIS(2-ETHYLHEXYL)PHTHALATE	J	48	350	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	18	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.84	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.0	1.7	PQL	ug/Kg	
	PYRENE	J	1.0	1.7	PQL	ug/Kg	
SL-008-SA5DS-SS-0.0-0.5	BENZO(A)PYRENE	J	0.87	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	18	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.77	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.77	1.7	PQL	ug/Kg	
	PYRENE	J	1.3	1.7	PQL	ug/Kg	
SL-009-SA5DS-SS-0.0-0.5	BENZO(A)PYRENE	J	0.84	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.5	18	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.96	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	1.5	1.7	PQL	ug/Kg	
SL-010-SA5DS-SS-0.0-0.5	BENZO(A)PYRENE	J	0.89	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.84	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.90	1.7	PQL	ug/Kg	
	PYRENE	J	1.4	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5DS-SS-0.0-0.5	BENZO(A)PYRENE	J	0.74	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.5	18	PQL	ug/Kg	
	CHRYSENE	J	0.81	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.73	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.75	1.7	PQL	ug/Kg	
	PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-014-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.68	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.80	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.7	PQL	ug/Kg	
	PYRENE	J	1.6	1.7	PQL	ug/Kg	
SL-015-SA5DS-SS-0.0-0.5	BENZO(A)PYRENE	J	0.88	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	18	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.69	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.7	PQL	ug/Kg	
	PYRENE	J	1.5	1.7	PQL	ug/Kg	
SL-016-SA5DS-SS-0.0-0.5	BENZO(A)PYRENE	J	0.85	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	
	FLUORENE	J	0.81	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.75	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	1.3	1.7	PQL	ug/Kg	
SL-017-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.68	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	
	FLUORENE	J	1.3	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.67	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.95	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.7	PQL	ug/Kg	
SL-033-SA5DS-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.96	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	19	PQL	ug/Kg	
SL-034-SA5DS-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
SL-040-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.77	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.8	18	PQL	ug/Kg	
	NAPHTHALENE	J	1.4	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.7	PQL	ug/Kg	
SL-103-SA7-SB-18.0-19.0	BENZO(B)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.69	1.8	PQL	ug/Kg	
SL-106-SA7-SB-16.5-17.5	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.8	19	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.8	PQL	ug/Kg	
SL-106-SA7-SB-19.0-20.0	ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE257

Laboratory: LL

EDD Filename: DE257_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-106-SA7-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	0.70	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	0.72	1.7	PQL	ug/Kg	
SL-106-SA7-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.82	1.8	PQL	ug/Kg	J (all detects)

Method: 8315A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-106-SA7-SB-19.0-20.0	FORMALDEHYDE	J	1200	1600	PQL	ug/Kg	J (all detects)

LDC #: 26864A4
 SDG #: DE257
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 ADR

Date: 1/4/12
 Page: (of)
 Reviewer:
 2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	no good by 20B/20C
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N SW	Al, Ba, Ca, Fe, Mg, K, Ti, V, Zn > 4x
VII.	Duplicate Sample Analysis	N A	Ag < 5x
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB = 19

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SL-103-SA7-SB-18.0-19.0	11	SL-014-SA5DS-SS-0.0-0.5	21	SL-034-SA5DS-SS-0.0-0.5MSD	31	
2	SL-106-SA7-SB-4.0-5.0	12	SL-015-SA5DS-SS-0.0-0.5	22	SL-034-SA5DS-SS-0.0-0.5DUP	32	
3	SL-106-SA7-SB-9.0-10.0	13	SL-016-SA5DS-SS-0.0-0.5	23		33	
4	SL-106-SA7-SB-16.5-17.5	14	SL-017-SA5DS-SS-0.0-0.5	24		34	
5	SL-106-SA7-SB-19.0-20.0	15	SL-033-SA5DS-SS-0.0-0.5	25		35	
6	SL-007-SA5DS-SS-0.0-0.5	16	SL-034-SA5DS-SS-0.0-0.5	26		36	
7	SL-008-SA5DS-SS-0.0-0.5	17	SL-040-SA5DS-SS-0.0-0.5	27		37	
8	SL-009-SA5DS-SS-0.0-0.5	18	DUP-02-SA5DS-QC-092811	28		38	
9	SL-010-SA5DS-SS-0.0-0.5	19	EB-SA5DS-SS-092811	29		39	
10	SL-013-SA5DS-SS-0.0-0.5	20	SL-034-SA5DS-SS-0.0-0.5MS	30		40	

Notes: _____

**VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES**

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Sample Concentration units, unless otherwise noted: ug/L

Soil preparation factor applied: 100X

Associated Samples: All AQ

Reason: B

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* (ug/L)	Action Limit	19													
P			2.7	13.5	10.5													
Sb			0.39	1.95														
Pb			0.061	0.305														
Hg			0.036	0.18	0.045													

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

Y **N** **N/A** Were field blanks identified in this SDG?

Y **N** **N/A** Were target analytes detected in the field blanks?

Blank units: ug/L **Associated sample units:** mg/Kg

Sampling date: 9/28/11 **Soil factor applied:** 100X, Hg:167X

Field blank type: (circle one) Field Blank / Rinsate / Other:

Associated Samples: 6-18 **Reason Code:** F

Analyte	Blank ID	Sample Identification																		
		19	2.5	0.22	2.6	0.045	10.5	Action Level	1	2	3	4	5	6	8	9	10	11	14	
B							1.25													
Cd							0.11													
Pb							1.3													
Hg							0.037575							0.012	0.010	0.013	0.0081	0.011	0.024	
Sr							5.25													

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE257
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 64222539BKG Matrix Spike Lab Sample ID: 64222540MS Matrix Spike Duplicate Lab Sample ID: 64222541MSD
 & Solids for Sample: 96.0
 Batch Id(s): P27208B, P27226B, P27211C

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C			Q	R	Q	R	RPD	M
Aluminum		31930.1196		36643.1450		37373.8215		200.3205	204.2484	MG/KG	2353	2665	70K	20P	
Antimony	121	0.3921		1.1542		1.1454		1.2500	1.2376	MG/KG	61 N	61 N	75 - 125	20MS	
Arsenic	75	7.4010		10.4167		9.9134		2.0833	2.0627	MG/KG	145 N	122	75 - 125	20MS	
Barium	137	182.4876		151.3542		149.7009		10.4167	10.3135	MG/KG	-299	-318	70K	20MS	
Beryllium	9	1.1559		2.1188		2.0710		0.8333	0.8251	MG/KG	116	111	75 - 125	20MS	
Boron		15.5456		215.1252		219.4210		200.3205	204.2484	MG/KG	100	100	84 - 115	20P	
Cadmium	111	0.3045		1.6579		1.6679		1.0417	1.0314	MG/KG	130 N	132 N	75 - 125	20MS	
Calcium		9213.1271		9328.0769		9594.2330		400.6410	408.4967	MG/KG	29	93	70K	20P	
Chromium	52	39.9752		51.5000		54.3317		10.4167	10.3135	MG/KG	111	139 N	75 - 125	20MS	
Cobalt	59	13.9212		78.8542		80.6106		52.0833	51.5677	MG/KG	125	129 N	75 - 125	20MS	
Copper	63	21.5965		34.8750		34.7772		10.4167	10.3135	MG/KG	127 N	128 N	75 - 125	20MS	
Iron		37434.7669		37119.8317		39290.6924		100.1603	102.1242	MG/KG	-314	1817	70K	20P	
Lead	208	12.4278		16.4083		16.7987		3.1250	3.0941	MG/KG	127	141	75 - 125	MS	
Lithium		31.5584		131.1308		135.4126		100.1603	102.1242	MG/KG	99	102	82 - 114	20P	
Magnesium		8844.7174		9112.7113		9217.3621		200.3205	204.2484	MG/KG	134	182	70K	20P	
Manganese		369.7556		411.6577		421.0590		50.0801	51.0621	MG/KG	84	100	70K	20P	
Mercury		0.0074	U	0.1815		0.1742		0.1729	0.1643	MG/KG	105	106	65 - 135	20CV	
Molybdenum	98	0.5476		14.2854		14.1172		10.4167	10.3135	MG/KG	132 N	132 N	75 - 125	20MS	
Nickel	60	27.7847		42.3542		44.1007		10.4167	10.3135	MG/KG	140 N	158 N	75 - 125	20MS	
Phosphorus		510.6817		605.2073		630.6097		100.1603	102.1242	MG/KG	94	117	70K	20P	
Potassium		4979.0058		6442.1945		6621.1152		1001.6026	1021.2418	MG/KG	146	161	70K	20P	
Selenium	78	0.2719	B	2.6167		2.6753		2.0833	2.0627	MG/KG	113	117	75 - 125	20MS	
Silver	107	0.0485	B	13.4458		13.2653		10.4167	10.3135	MG/KG	129 N	128 N	75 - 125	20MS	
Sodium		100.2279	B	1076.7728		1088.8807		1001.6026	1021.2418	MG/KG	97	97	75 - 125	20P	
Strontium		40.2527		135.6460		138.6509		100.1603	102.1242	MG/KG	95	96	75 - 115	20P	
Thallium	203	0.4319		0.9708		0.9383		0.4167	0.4125	MG/KG	129 N	123	75 - 125	20MS	
Tin		2.9455	B	341.2260		350.2522		400.6410	408.4967	MG/KG	84	85	80 - 110	20P	
Titanium		1540.2042		1952.6222		2059.2218		100.1603	102.1242	MG/KG	412	508	70K	20P	
Tantalum	51	78.9810		92.5625		97.9167		10.4167	10.3135	MG/KG	130	184	70K	20MS	
Zinc	66	101.6708		115.6875		113.9233		10.4167	10.3135	MG/KG	135	119	70K	20MS	
Zirconium		4.7844	B	93.7049		96.7647		100.1603	102.1242	MG/KG	89	90	81 - 110	20P	

METHODS: N
 P = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence
 CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE258

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3050B	6010B	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3050B	6020	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3060A	7199	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3550B	8081A	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3550B	8082	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3550B	8151A	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3550B	8270C	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3550B	8270C SIM	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	Gen Prep	314.0	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	METHOD	300.0	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	METHOD	7471A	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3050B	6010B	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3050B	6020	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3060A	7199	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3550B	8081A	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3550B	8082	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3550B	8151A	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3550B	8270C	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3550B	8270C SIM	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	Gen Prep	314.0	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	METHOD	300.0	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	METHOD	7471A	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3050B	6010B	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3050B	6020	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3060A	7199	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3550B	8015M	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3550B	8082	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3550B	8270C	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3550B	8270C SIM	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	5035	8015M	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	300.0	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	314.0	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	7471A	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	8015B	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	8015M	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	9012B	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3050B	6010B	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3050B	6020	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3060A	7199	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3550B	8081A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3550B	8082	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3550B	8151A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3550B	8270C	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3550B	8270C SIM	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	Gen Prep	314.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	METHOD	300.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	METHOD	7471A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3050B	6010B	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3050B	6020	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3060A	7199	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3550B	8082	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3550B	8151A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3550B	8270C	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3550B	8270C SIM	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	Gen Prep	314.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	METHOD	300.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	METHOD	7471A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3050B	6010B	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3050B	6020	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3550B	8081A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3550B	8082	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3550B	8151A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3550B	8270C	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3550B	8270C SIM	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	METHOD	7471A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	3050B	6010B	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	3050B	6020	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	3060A	7199	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	Gen Prep	314.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	METHOD	300.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	METHOD	7471A	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3050B	6010B	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3050B	6020	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3060A	7199	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3550B	8082	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3550B	8270C SIM	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	METHOD	300.0	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	METHOD	314.0	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	METHOD	7471A	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0DUP	P423870D220520A	DUP	3050B	6020	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0DUP	P423870D271756B	DUP	METHOD	314.0	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0MSD	P423870M220523A	MSD	3050B	6020	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0MS	P423870R220521A	MS	3050B	6020	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0MS	P423870R271819B	MS	METHOD	314.0	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3050B	6010B	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3050B	6020	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3060A	7199	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3550B	8081A	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3550B	8082	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3550B	8151A	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3550B	8270C	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3550B	8270C SIM	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	Gen Prep	314.0	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	METHOD	300.0	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	METHOD	7471A	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3050B	6010B	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3050B	6020	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3060A	7199	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3550B	8081A	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3550B	8082	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3550B	8151A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3550B	8270C	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3550B	8270C SIM	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	Gen Prep	314.0	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	METHOD	300.0	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	METHOD	7471A	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3050B	6010B	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3050B	6020	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3060A	7199	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3550B	8082	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3550B	8270C	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3550B	8270C SIM	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	METHOD	300.0	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	METHOD	314.0	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	METHOD	7471A	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0DUP	P423869D271642B	DUP	METHOD	300.0	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0MS	P423869R271654B	MS	METHOD	300.0	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3050B	6010B	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3050B	6020	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3060A	7199	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3550B	8081A	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3550B	8082	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3550B	8151A	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3550B	8270C	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3550B	8270C SIM	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	Gen Prep	314.0	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	METHOD	7471A	III
29-Sep-2011	TB-092911	6423872	TB	5030B	8015M	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3050B	6010B	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3050B	6020	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3060A	7199	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3550B	8081A	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3550B	8082	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3550B	8151A	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3550B	8270C	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3550B	8270C SIM	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	Gen Prep	314.0	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	METHOD	300.0	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	METHOD	7471A	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3050B	6010B	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3050B	6020	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3060A	7199	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3550B	8081A	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3550B	8082	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3550B	8151A	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3550B	8270C	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3550B	8270C SIM	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	Gen Prep	314.0	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	METHOD	300.0	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	METHOD	7471A	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3050B	6010B	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3060A	7199	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3550B	8081A	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3550B	8082	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3550B	8151A	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3550B	8270C	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3550B	8270C SIM	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	Gen Prep	314.0	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	METHOD	300.0	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: DUP01-SA8S-QC-092911		Collected: 9/29/2011 10:05:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-001-SA8S-SS-0.0-0.5		Collected: 9/29/2011 11:25:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-003-SA8S-SS-0.0-0.5		Collected: 9/29/2011 9:55:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-005-SA8S-SS-0.0-0.5		Collected: 9/29/2011 8:40:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-007-SA8S-SS-0.0-0.5		Collected: 9/29/2011 8:00:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-013-SA8S-SS-0.0-0.5		Collected: 9/29/2011 2:55:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-014-SA8S-SS-0.0-0.5		Collected: 9/29/2011 3:10:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-015-SA8S-SS-0.0-0.5		Collected: 9/29/2011 3:30:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.0	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.99	J	0.84	MDL	1.0	PQL	mg/Kg	J	Z, Q

Sample ID: SL-126-SA7-SB-4.0-5.0 Collected: 9/29/2011 11:33:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.86	U	0.86	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-127-SA7-SB-4.0-5.0 Collected: 9/29/2011 10:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-177-SA7-SB-3.0-4.0 Collected: 9/29/2011 8:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.1		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3360		11.5	MDL	51.1	PQL	mg/Kg	J	Q
TIN	1.99	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.54	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA8S-SS-0.0-0.5 Collected: 9/29/2011 11:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	5170		11.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.14	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.86	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3130		11.6	MDL	51.2	PQL	mg/Kg	J	Q
TIN	1.94	J	0.328	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.40	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1460		11.5	MDL	50.9	PQL	mg/Kg	J	Q
TIN	1.44	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.30	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1640		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	1.50	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.00	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3850		11.2	MDL	49.5	PQL	mg/Kg	J	Q
SODIUM	72.2	J	5.89	MDL	99.0	PQL	mg/Kg	J	Z
TIN	2.24	J	0.317	MDL	9.90	PQL	mg/Kg	U	B
Zirconium	1.71	J	0.456	MDL	4.95	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4610		11.8	MDL	52.2	PQL	mg/Kg	J	Q
SODIUM	94.3	J	6.21	MDL	104	PQL	mg/Kg	J	Z
TIN	2.20	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.13	J	0.480	MDL	5.22	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4370		11.5	MDL	50.8	PQL	mg/Kg	J	Q
TIN	1.91	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.65	J	0.467	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4220		11.8	MDL	52.3	PQL	mg/Kg	J	Q
SODIUM	104	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	2.06	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.31	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA7-SB-4.0-5.0 Collected: 9/29/2011 11:33:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.58	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
POTASSIUM	4020		12.2	MDL	53.9	PQL	mg/Kg	J	Q
SODIUM	85.6	J	6.41	MDL	108	PQL	mg/Kg	J	Z
TIN	2.45	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.76	J	0.496	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA7-SB-4.0-5.0 Collected: 9/29/2011 10:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.20	J	0.369	MDL	5.13	PQL	mg/Kg	J	Z
POTASSIUM	2940		11.6	MDL	51.3	PQL	mg/Kg	J	Q
SODIUM	81.2	J	6.10	MDL	103	PQL	mg/Kg	J	Z
TIN	2.26	J	0.328	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	0.573	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-177-SA7-SB-3.0-4.0 Collected: 9/29/2011 8:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.87	J	0.366	MDL	5.09	PQL	mg/Kg	J	Z
POTASSIUM	2650		11.5	MDL	50.9	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-177-SA7-SB-3.0-4.0 Collected: 9/29/2011 8:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.38	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	0.838	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.284	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.440		0.0511	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	108		0.108	MDL	0.409	PQL	mg/Kg	J	A

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.253		0.0756	MDL	0.204	PQL	mg/Kg	J	Q
ARSENIC	8.86		0.0817	MDL	0.409	PQL	mg/Kg	J	Q, E
CADMIUM	0.343		0.0450	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	32.6		0.123	MDL	0.409	PQL	mg/Kg	J	Q
COBALT	10.2		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A
COPPER	22.9		0.0817	MDL	0.409	PQL	mg/Kg	J	E, Q
LEAD	22.9		0.0104	MDL	0.204	PQL	mg/Kg	J	A
NICKEL	19.8		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.0184	J	0.0145	MDL	0.102	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.303		0.0307	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	61.4		0.0225	MDL	0.102	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-001-SA8S-SS-0.0-0.5 Collected: 9/29/2011 11:25:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.461		0.0510	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA8S-SS-0.0-0.5 Collected: 9/29/2011 11:25:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.108	MDL	0.408	PQL	mg/Kg	J	A

Sample ID: SL-001-SA8S-SS-0.0-0.5 Collected: 9/29/2011 11:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.225		0.0755	MDL	0.204	PQL	mg/Kg	J	Q
ARSENIC	8.60		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
CADMIUM	0.389		0.0449	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	47.4		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	12.2		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A
COPPER	23.5		0.0816	MDL	0.408	PQL	mg/Kg	J	E, Q
LEAD	18.2		0.0104	MDL	0.204	PQL	mg/Kg	J	A
NICKEL	25.7		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0357	J	0.0145	MDL	0.102	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.420		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	86.2		0.0224	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.252	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.322		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.2		0.107	MDL	0.406	PQL	mg/Kg	J	A

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206		0.0750	MDL	0.203	PQL	mg/Kg	J	Q
ARSENIC	6.79		0.0811	MDL	0.406	PQL	mg/Kg	J	Q, E
CADMIUM	0.300		0.0446	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	29.9		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	9.60		0.0203	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	18.8		0.0811	MDL	0.406	PQL	mg/Kg	J	E, Q
LEAD	20.8		0.0103	MDL	0.203	PQL	mg/Kg	J	A
NICKEL	17.1		0.101	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0229	J	0.0144	MDL	0.101	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.257		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	51.6		0.0223	MDL	0.101	PQL	mg/Kg	J	E

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.136		0.0509	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	82.4		0.108	MDL	0.407	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.34		0.0806	MDL	0.403	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.49		0.0814	MDL	0.407	PQL	mg/Kg	J	Q, E
CADMIUM	0.232		0.0448	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	23.8		0.122	MDL	0.407	PQL	mg/Kg	J	Q
COBALT	4.85		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A
LEAD	6.61		0.0104	MDL	0.204	PQL	mg/Kg	J	A
NICKEL	9.79		0.102	MDL	0.407	PQL	mg/Kg	J	Q
THALLIUM	0.123		0.0305	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	37.4		0.0224	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-007-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.213	J	0.0601	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.277		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:00:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	88.6		0.110	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-007-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:00:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.6		0.0829	MDL	0.414	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-007-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.87		0.0829	MDL	0.414	PQL	mg/Kg	J	Q, E
CADMIUM	0.225		0.0456	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	23.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	6.87		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
LEAD	10.9		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	13.2		0.104	MDL	0.414	PQL	mg/Kg	J	Q
THALLIUM	0.176		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	38.5		0.0228	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.221	J	0.0597	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.03		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	108		0.109	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.3		0.0816	MDL	0.408	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.149	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	7.58		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.235		0.0453	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	25.8		0.124	MDL	0.412	PQL	mg/Kg	J	Q
COBALT	8.91		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, A
LEAD	13.9		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	17.5		0.103	MDL	0.412	PQL	mg/Kg	J	Q
SILVER	0.0298	J	0.0146	MDL	0.103	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.351		0.0309	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	49.8		0.0227	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.315	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.531		0.0497	MDL	0.0994	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.105	MDL	0.398	PQL	mg/Kg	J	A

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.146	J	0.0736	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	6.92		0.0795	MDL	0.398	PQL	mg/Kg	J	Q, E
CADMIUM	0.324		0.0437	MDL	0.0994	PQL	mg/Kg	J	Q
CHROMIUM	32.3		0.119	MDL	0.398	PQL	mg/Kg	J	Q
COBALT	9.79		0.0199	MDL	0.0994	PQL	mg/Kg	J	Q, A
COPPER	19.2		0.0795	MDL	0.398	PQL	mg/Kg	J	E, Q
LEAD	14.9		0.0101	MDL	0.199	PQL	mg/Kg	J	A
NICKEL	21.1		0.0994	MDL	0.398	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0323	J	0.0141	MDL	0.0994	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.367		0.0298	MDL	0.0994	PQL	mg/Kg	J	Q
VANADIUM	51.4		0.0219	MDL	0.0994	PQL	mg/Kg	J	E

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.291	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.491		0.0513	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.109	MDL	0.410	PQL	mg/Kg	J	A

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	6.44		0.0820	MDL	0.410	PQL	mg/Kg	J	Q, E
CADMIUM	0.338		0.0451	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	31.3		0.123	MDL	0.410	PQL	mg/Kg	J	Q
COBALT	9.63		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	18.0		0.0820	MDL	0.410	PQL	mg/Kg	J	E, Q
LEAD	11.3		0.0105	MDL	0.205	PQL	mg/Kg	J	A
NICKEL	19.2		0.103	MDL	0.410	PQL	mg/Kg	J	Q
SILVER	0.0292	J	0.0146	MDL	0.103	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.356		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	53.2		0.0226	MDL	0.103	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.324		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.8		0.110	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	6.35		0.0829	MDL	0.414	PQL	mg/Kg	J	Q, E
CADMIUM	0.263		0.0456	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	34.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	9.74		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
COPPER	18.4		0.0829	MDL	0.414	PQL	mg/Kg	J	E, Q
LEAD	16.7		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	18.9		0.104	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0209	J	0.0147	MDL	0.104	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.330		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	59.0		0.0228	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-126-SA7-SB-4.0-5.0 Collected: 9/29/2011 11:33:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0991	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA7-SB-4.0-5.0 Collected: 9/29/2011 11:33:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.878		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-126-SA7-SB-4.0-5.0 Collected: 9/29/2011 11:33:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	134		0.112	MDL	0.423	PQL	mg/Kg	J	A

Sample ID: SL-126-SA7-SB-4.0-5.0 Collected: 9/29/2011 11:33:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.64		0.0862	MDL	0.431	PQL	mg/Kg	J	Q

Sample ID: SL-126-SA7-SB-4.0-5.0 Collected: 9/29/2011 11:33:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0855	J	0.0782	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	4.03		0.0845	MDL	0.423	PQL	mg/Kg	J	Q, E
CADMIUM	0.164		0.0465	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	16.8		0.127	MDL	0.423	PQL	mg/Kg	J	Q
COBALT	6.53		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, A
LEAD	6.61		0.0108	MDL	0.211	PQL	mg/Kg	J	A
NICKEL	12.2		0.106	MDL	0.423	PQL	mg/Kg	J	Q
SILVER	0.0360	J	0.0150	MDL	0.106	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.357		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	34.5		0.0232	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-127-SA7-SB-4.0-5.0 Collected: 9/29/2011 10:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.289		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-127-SA7-SB-4.0-5.0 Collected: 9/29/2011 10:00:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.8		0.110	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-127-SA7-SB-4.0-5.0 Collected: 9/29/2011 10:00:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	5.08		0.0812	MDL	0.406	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-127-SA7-SB-4.0-5.0 Collected: 9/29/2011 10:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0860	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	3.12		0.0829	MDL	0.414	PQL	mg/Kg	J	Q, E
CADMIUM	0.0757	J	0.0456	MDL	0.104	PQL	mg/Kg	J	Z, Q
CHROMIUM	13.2		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	4.99		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
LEAD	3.75		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	8.73		0.104	MDL	0.414	PQL	mg/Kg	J	Q
THALLIUM	0.271		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	28.6		0.0228	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-177-SA7-SB-3.0-4.0 Collected: 9/29/2011 8:50:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.176	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-177-SA7-SB-3.0-4.0 Collected: 9/29/2011 8:50:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.627		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-177-SA7-SB-3.0-4.0 Collected: 9/29/2011 8:50:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.110	MDL	0.415	PQL	mg/Kg	J	A

Sample ID: SL-177-SA7-SB-3.0-4.0 Collected: 9/29/2011 8:50:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	5.45		0.0847	MDL	0.423	PQL	mg/Kg	J	Q

Sample ID: SL-177-SA7-SB-3.0-4.0 Collected: 9/29/2011 8:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0768	U	0.0768	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	5.16		0.0830	MDL	0.415	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-177-SA7-SB-3.0-4.0

Collected: 9/29/2011 8:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0806	J	0.0456	MDL	0.104	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.9		0.124	MDL	0.415	PQL	mg/Kg	J	Q
COBALT	5.11		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
LEAD	6.03		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	10.3		0.104	MDL	0.415	PQL	mg/Kg	J	Q
SILVER	0.0351	J	0.0147	MDL	0.104	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.323		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	31.4		0.0228	MDL	0.104	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP01-SA8S-QC-092911

Collected: 9/29/2011 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA8S-SS-0.0-0.5

Collected: 9/29/2011 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA8S-SS-0.0-0.5

Collected: 9/29/2011 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5

Collected: 9/29/2011 3:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.73	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0137	J	0.0070	MDL	0.0991	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA8S-SS-0.0-0.5 Collected: 9/29/2011 11:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0132	J	0.0073	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0184	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0161	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0194	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0138	J	0.0068	MDL	0.0965	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0193	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.18	U	0.18	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	0.53		0.068	MDL	0.35	PQL	ug/Kg	J	H
4,4'-DDT	0.43	U	0.43	MDL	0.43	PQL	ug/Kg	UJ	H
ALDRIN	0.068	U	0.068	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	1.6	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, H, FD
DELTA-BHC	0.055	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, H
DIELDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.071	U	0.071	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.34	U	0.34	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.12	U	0.12	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	7.8	U	7.8	MDL	7.8	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8081A **Matrix:** SO

Sample ID: SL-001-SA8S-SS-0.0-0.5 Collected: 9/29/2011 11:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.52	U	0.52	MDL	0.52	PQL	ug/Kg	UJ	H
4,4'-DDE	0.85		0.070	MDL	0.36	PQL	ug/Kg	J	S, H
4,4'-DDT	0.82		0.070	MDL	0.36	PQL	ug/Kg	J	S, H
ALDRIN	0.070	U	0.070	MDL	0.18	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	UJ	H
BETA-BHC	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	UJ	H
Chlordane	1.5	J	0.85	MDL	3.6	PQL	ug/Kg	J	Z, S, H
DELTA-BHC	0.44		0.038	MDL	0.18	PQL	ug/Kg	J	S, H
DIELDRIN	0.13	U	0.13	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.095	U	0.095	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.072	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z, S, H
HEPTACHLOR	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	H
MIREX	0.19	U	0.19	MDL	0.36	PQL	ug/Kg	UJ	H
TOXAPHENE	5.3	U	5.3	MDL	7.0	PQL	ug/Kg	UJ	H

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	0.48		0.068	MDL	0.35	PQL	ug/Kg	J	H
4,4'-DDT	0.42	U	0.42	MDL	0.42	PQL	ug/Kg	UJ	H
ALDRIN	0.068	U	0.068	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	0.82	U	0.82	MDL	3.5	PQL	ug/Kg	UJ	H, FD
DELTA-BHC	0.059	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, H
DIELDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	R	Q
ENDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.28	U	0.28	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	R	Q
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	7.2	U	7.2	MDL	7.2	PQL	ug/Kg	UJ	H

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDT	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ALDRIN	0.068	U	0.068	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	0.82	U	0.82	MDL	3.5	PQL	ug/Kg	UJ	H
DELTA-BHC	0.037	U	0.037	MDL	0.17	PQL	ug/Kg	UJ	H
DIELDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8081A **Matrix:** SO

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	2.3	U	2.3	MDL	6.8	PQL	ug/Kg	UJ	H

Sample ID: SL-007-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	0.17	U	0.17	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDT	0.19	U	0.19	MDL	0.35	PQL	ug/Kg	UJ	H
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	1.9	J	0.83	MDL	3.5	PQL	ug/Kg	J	Z, H
DELTA-BHC	0.045	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, H
DIELDRIN	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.35	U	0.35	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	4.7	U	4.7	MDL	6.9	PQL	ug/Kg	UJ	H

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	1.1		0.068	MDL	0.35	PQL	ug/Kg	J	H
4,4'-DDT	1.9		0.068	MDL	0.35	PQL	ug/Kg	J	H

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: SL-013-SA8S-SS-0.0-0.5

Collected: 9/29/2011 2:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALDRIN	0.068	U	0.068	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	2.7	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, H
DELTA-BHC	0.14	U	0.14	MDL	0.17	PQL	ug/Kg	UJ	H
DIELDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.25	U	0.25	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.060	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, H
HEPTACHLOR	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.27	U	0.27	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	4.3	U	4.3	MDL	6.8	PQL	ug/Kg	UJ	H

Sample ID: SL-014-SA8S-SS-0.0-0.5

Collected: 9/29/2011 3:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.20	U	0.20	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	1.1		0.069	MDL	0.35	PQL	ug/Kg	J	H
4,4'-DDT	0.80		0.069	MDL	0.35	PQL	ug/Kg	J	H
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	2.4	J	0.83	MDL	3.5	PQL	ug/Kg	J	Z, H
DELTA-BHC	0.054	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z, H
DIELDRIN	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8081A **Matrix:** SO

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.22	U	0.22	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.098	U	0.098	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	2.3	U	2.3	MDL	6.9	PQL	ug/Kg	UJ	H

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.14	U	0.14	MDL	0.36	PQL	ug/Kg	UJ	H
4,4'-DDE	0.57		0.069	MDL	0.36	PQL	ug/Kg	J	H
4,4'-DDT	0.29	J	0.069	MDL	0.36	PQL	ug/Kg	J	Z, H
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	1.9	J	0.84	MDL	3.6	PQL	ug/Kg	J	Z, H
DELTA-BHC	0.20		0.038	MDL	0.17	PQL	ug/Kg	J	H
DIELDRIN	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.17	U	0.17	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.36	U	0.36	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
TOXAPHENE	2.7	U	2.7	MDL	6.9	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8081A	Matrix: SO

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
4,4'-DDE	0.62		0.069	MDL	0.36	PQL	ug/Kg	J	H
4,4'-DDT	0.94		0.069	MDL	0.36	PQL	ug/Kg	J	H
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	2.9	J	0.84	MDL	3.6	PQL	ug/Kg	J	Z, H
DELTA-BHC	0.038	U	0.038	MDL	0.17	PQL	ug/Kg	UJ	H
DIELDRIN	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.18	U	0.18	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.36	U	0.36	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
TOXAPHENE	2.9	U	2.9	MDL	6.9	PQL	ug/Kg	UJ	H

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.54	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-001-SA8S-SS-0.0-0.5 Collected: 9/29/2011 11:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.8	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8082 **Matrix:** SO

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.40	U	0.40	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.6	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.5	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.4	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.4	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.55	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.41	U	0.41	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 1262	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 1268	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	S
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	S
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8151A	Matrix: SO

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.23	U	0.23	MDL	0.23	PQL	ug/Kg	UJ	L
2,4-DB	1.9		0.64	MDL	1.8	PQL	ug/Kg	J	FD
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	UJ	L
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	180	U	180	MDL	260	PQL	ug/Kg	UJ	L
MCPP	77	U	77	MDL	260	PQL	ug/Kg	UJ	L, FD

Sample ID: SL-001-SA8S-SS-0.0-0.5 Collected: 9/29/2011 11:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.080	U	0.080	MDL	0.18	PQL	ug/Kg	UJ	L
DICAMBA	0.42	U	0.42	MDL	1.3	PQL	ug/Kg	UJ	L
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L
MCPA	1900		81	MDL	270	PQL	ug/Kg	J	L
MCPP	80	U	80	MDL	270	PQL	ug/Kg	UJ	L

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.13	U	0.13	MDL	0.18	PQL	ug/Kg	UJ	Q, L
2,4-DB	0.64	U	0.64	MDL	1.8	PQL	ug/Kg	UJ	FD
DALAPON	4.5	U	4.5	MDL	9.3	PQL	ug/Kg	R	Q
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	R	Q
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	130	U	130	MDL	260	PQL	ug/Kg	UJ	L
MCPP	280		77	MDL	260	PQL	ug/Kg	J	L, FD

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.077	U	0.077	MDL	0.17	PQL	ug/Kg	UJ	L
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	UJ	L
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	78	U	78	MDL	260	PQL	ug/Kg	UJ	L
MCPP	77	U	77	MDL	260	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8151A	Matrix: SO

Sample ID: SL-007-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.078	U	0.078	MDL	0.18	PQL	ug/Kg	UJ	L
DICAMBA	0.42	U	0.42	MDL	1.3	PQL	ug/Kg	UJ	L
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	79	U	79	MDL	260	PQL	ug/Kg	UJ	L
MCPP	78	U	78	MDL	260	PQL	ug/Kg	UJ	L

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.26		0.077	MDL	0.17	PQL	ug/Kg	J	L
2,4-DB	1.4	J	0.64	MDL	1.7	PQL	ug/Kg	J	Z
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	UJ	L
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	380		78	MDL	260	PQL	ug/Kg	J	L
MCPP	77	U	77	MDL	260	PQL	ug/Kg	UJ	L

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.21		0.078	MDL	0.18	PQL	ug/Kg	J	L
2,4-DB	0.94	J	0.65	MDL	1.8	PQL	ug/Kg	J	Z
DICAMBA	0.42	U	0.42	MDL	1.2	PQL	ug/Kg	UJ	L
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	79	U	79	MDL	260	PQL	ug/Kg	UJ	L
MCPP	78	U	78	MDL	260	PQL	ug/Kg	UJ	L

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.15	U	0.15	MDL	0.18	PQL	ug/Kg	UJ	L
DICAMBA	0.42	U	0.42	MDL	1.2	PQL	ug/Kg	UJ	L
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	200	U	200	MDL	260	PQL	ug/Kg	UJ	L
MCPP	78	U	78	MDL	260	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8151A **Matrix:** SO

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.20		0.078	MDL	0.18	PQL	ug/Kg	J	L
DICAMBA	0.42	U	0.42	MDL	1.3	PQL	ug/Kg	UJ	L
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	210	U	210	MDL	260	PQL	ug/Kg	UJ	L
MCPP	78	U	78	MDL	260	PQL	ug/Kg	UJ	L

Method Category: SVOA
Method: 8270C **Matrix:** SO

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-001-SA8S-SS-0.0-0.5 Collected: 9/29/2011 11:25:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8270C	Matrix:	SO
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Sample ID: SL-007-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:00:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-024-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:15:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-126-SA7-SB-4.0-5.0 Collected: 9/29/2011 11:33:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-127-SA7-SB-4.0-5.0 Collected: 9/29/2011 10:00:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-177-SA7-SB-3.0-4.0 Collected: 9/29/2011 8:50:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: DUP01-SA8S-QC-092911 Collected: 9/29/2011 10:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.1	J	6.2	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	16	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-001-SA8S-SS-0.0-0.5 Collected: 9/29/2011 11:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.87	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.91	J	0.71	MDL	1.8	PQL	ug/Kg	U	B
BENZO(K)FLUORANTHENE	0.72	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.4	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	16	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA8S-SS-0.0-0.5 Collected: 9/29/2011 9:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.9	J	6.2	MDL	19	PQL	ug/Kg	U	B

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM
Matrix: SO

Sample ID: SL-005-SA8S-SS-0.0-0.5 Collected: 9/29/2011 8:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19		6.1	MDL	18	PQL	ug/Kg	U	B

Sample ID: SL-013-SA8S-SS-0.0-0.5 Collected: 9/29/2011 2:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.41	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	U	B
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.2	MDL	18	PQL	ug/Kg	U	B
CHRYSENE	0.89	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.93	J	0.68	MDL	1.7	PQL	ug/Kg	U	B
PYRENE	0.80	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.78	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.42	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	U	B
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	6.2	MDL	19	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	U	B
PHENANTHRENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA8S-SS-0.0-0.5 Collected: 9/29/2011 3:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
ACENAPHTHENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
ACENAPHTHYLENE	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
ANTHRACENE	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
BENZO(A)ANTHRACENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
BENZO(A)PYRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
BENZO(B)FLUORANTHENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, S
BENZO(G,H,I)PERYLENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-015-SA8S-SS-0.0-0.5

Collected: 9/29/2011 3:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
BIS(2-ETHYLHEXYL)PHTHALATE	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	S
Butylbenzylphthalate	8.6	J	6.2	MDL	19	PQL	ug/Kg	J	Z, S
CHRYSENE	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
DIBENZO(A,H)ANTHRACENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
Diethylphthalate	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	S
Dimethylphthalate	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	S
Di-n-butylphthalate	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	S
Di-n-octylphthalate	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	S
FLUORANTHENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
FLUORENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
INDENO(1,2,3-CD)PYRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
NAPHTHALENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
N-NITROSODIMETHYLAMINE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
PHENANTHRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
PYRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S

Sample ID: SL-127-SA7-SB-4.0-5.0

Collected: 9/29/2011 10:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.58	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.83	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.9	J	6.3	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	0.71	J	0.70	MDL	1.7	PQL	ug/Kg	U	B

Sample ID: SL-177-SA7-SB-3.0-4.0

Collected: 9/29/2011 8:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	J	6.3	MDL	19	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: PrepDE258_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE258

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE258
 EDD Filename: DE258_v1.

Laboratory: LL
 eQAPP Name: CDM_SSFL_110509

Method: 8081A **Preparation Method: 5030B**
Matrix: SO

Sample ID	Type	Actual	Criteria	Units	Flag
DUP01-SA8S-QC-092911 (RES)	Sampling To Extraction	15.00	14.00	DAYS	J(all detects) UJ(all non-detects)
SL-001-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-003-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-003-SA8S-SS-0.0-0.5MS (RES)		15.00	14.00	DAYS	
SL-003-SA8S-SS-0.0-0.5MSD (RES)		15.00	14.00	DAYS	
SL-003-SA8S-SS-0.0-0.5RLLCS (RE		15.00	14.00	DAYS	
SL-003-SA8S-SS-0.0-0.5RLMS (RE		15.00	14.00	DAYS	
SL-005-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-007-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-013-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-014-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-015-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-024-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	

Method: 8151A **Preparation Method: 5030B**
Matrix: SO

Sample ID	Type	Actual	Criteria	Units	Flag
SL-003-SA8S-SS-0.0-0.5MS (RES)	Sampling To Extraction	20.00	14.00	DAYS	J(all detects) UJ(all non-detects)
SL-003-SA8S-SS-0.0-0.5MSD (RES)		20.00	14.00	DAYS	
SL-003-SA8S-SS-0.0-0.5RLLCS (RE		20.00	14.00	DAYS	

Method Blank Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27808DB221629	10/12/2011 4:29:00 PM	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	14.0 mg/Kg 13.0 mg/Kg 7.03 mg/Kg 5.37 mg/Kg 0.0762 mg/Kg 1.34 mg/Kg 0.0535 mg/Kg 1.32 mg/Kg	DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0
P28608BB221042	10/14/2011 10:42:00 AM	TITANIUM	0.0860 mg/Kg	DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA8S-QC-092911(RES)	TIN	1.99 mg/Kg	1.99U mg/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	TIN	2.14 mg/Kg	2.14U mg/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	TIN	1.94 mg/Kg	1.94U mg/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	TIN	1.44 mg/Kg	1.44U mg/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	TIN	1.50 mg/Kg	1.50U mg/Kg
SL-013-SA8S-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	TIN	1.91 mg/Kg	1.91U mg/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	TIN	2.06 mg/Kg	2.06U mg/Kg
SL-126-SA7-SB-4.0-5.0(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-127-SA7-SB-4.0-5.0(RES)	TIN	2.26 mg/Kg	2.26U mg/Kg
SL-177-SA7-SB-3.0-4.0(RES)	TIN	2.38 mg/Kg	2.38U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27826AB220430A	10/7/2011 4:30:00 AM	COPPER LEAD SILVER	0.977 mg/Kg 0.121 mg/Kg 0.0360 mg/Kg	DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA8S-QC-092911(RES)	SILVER	0.0184 mg/Kg	0.0184U mg/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	SILVER	0.0357 mg/Kg	0.0357U mg/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	SILVER	0.0229 mg/Kg	0.0229U mg/Kg
SL-013-SA8S-SS-0.0-0.5(RES)	SILVER	0.0298 mg/Kg	0.0298U mg/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	SILVER	0.0323 mg/Kg	0.0323U mg/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	SILVER	0.0292 mg/Kg	0.0292U mg/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	SILVER	0.0209 mg/Kg	0.0209U mg/Kg
SL-126-SA7-SB-4.0-5.0(RES)	SILVER	0.0360 mg/Kg	0.0360U mg/Kg
SL-177-SA7-SB-3.0-4.0(RES)	SILVER	0.0351 mg/Kg	0.0351U mg/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB28B260718	10/13/2011 7:18:00 AM	BENZO(G,H,I)PERYLENE BIS(2-ETHYLHEXYL)PHTHALATE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	1.5 ug/Kg 7.6 ug/Kg 1.4 ug/Kg 1.1 ug/Kg	DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA8S-QC-092911(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	7.1 ug/Kg	19U ug/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	BENZO(G,H,I)PERYLENE	0.91 ug/Kg	1.8U ug/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	14 ug/Kg	19U ug/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	7.9 ug/Kg	19U ug/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	19 ug/Kg	19U ug/Kg
SL-013-SA8S-SS-0.0-0.5(RES)	BENZO(G,H,I)PERYLENE	1.0 ug/Kg	1.7U ug/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-013-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	14 ug/Kg	18U ug/Kg
SL-013-SA8S-SS-0.0-0.5(RES)	INDENO(1,2,3-CD)PYRENE	0.93 ug/Kg	1.7U ug/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	BENZO(G,H,I)PERYLENE	1.4 ug/Kg	1.7U ug/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	18 ug/Kg	19U ug/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	DIBENZO(A,H)ANTHRACENE	1.1 ug/Kg	1.7U ug/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	INDENO(1,2,3-CD)PYRENE	1.3 ug/Kg	1.7U ug/Kg
SL-127-SA7-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	6.9 ug/Kg	19U ug/Kg
SL-127-SA7-SB-4.0-5.0(RES)	INDENO(1,2,3-CD)PYRENE	0.71 ug/Kg	1.7U ug/Kg
SL-177-SA7-SB-3.0-4.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	6.6 ug/Kg	19U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	2,4,5-T	-	-	10.00-158.00	39 (35.00)	2,4,5-T	J (all detects)
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	2,4,5-TP (Silvex) DINOSEB	16 8	- -	24.00-141.00 10.00-46.00	92 (35.00) 124 (35.00)	2,4,5-TP (Silvex) DINOSEB	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	ENDOSULFAN SULFATE ENDRIN KETONE	0 -	- 0	21.00-160.00 22.00-165.00	200 (50.00) 200 (50.00)	ENDOSULFAN SULFATE ENDRIN KETONE	J(all detects) R(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	2,4,5-TP (Silvex) DINOSEB	- -	- -	24.00-141.00 10.00-46.00	45 (35.00) 43 (35.00)	2,4,5-TP (Silvex) DINOSEB	J(all detects)
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	DALAPON DICAMBA	0 -	0 0	10.00-125.00 10.00-190.00	- 200 (50.00)	DALAPON DICAMBA	J(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911)	ARSENIC CADMIUM CHROMIUM	191 - 168	210 131 208	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ARSENIC CADMIUM CHROMIUM	J(all detects)
SL-001-SA8S-SS-0.0-0.5	COBALT	-	129	75.00-125.00	-	COBALT	
SL-003-SA8S-SS-0.0-0.5	COPPER	130	167	75.00-125.00	-	COPPER	
SL-005-SA8S-SS-0.0-0.5	LEAD	-	255	75.00-125.00	-	LEAD	
SL-007-SA8S-SS-0.0-0.5	NICKEL	136	179	75.00-125.00	-	NICKEL	
SL-013-SA8S-SS-0.0-0.5	SILVER	-	127	75.00-125.00	-	SILVER	
SL-014-SA8S-SS-0.0-0.5	THALLIUM	-	144	75.00-125.00	-	THALLIUM	
SL-015-SA8S-SS-0.0-0.5	VANADIUM	243	285	75.00-125.00	-	VANADIUM	
SL-024-SA8S-SS-0.0-0.5	ZINC	145	181	75.00-125.00	-	ZINC	
SL-126-SA7-SB-4.0-5.0							
SL-127-SA7-SB-4.0-5.0							
SL-177-SA7-SB-3.0-4.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	ANTIMONY	27	37	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) Post Spike = 86%
SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	MOLYBDENUM	-	134	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	BARIUM	202	320	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM	2148 2589 768 151 221 148	2670 909 672 293 - 171	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM	J(all detects) Al, Ca, Fe, Mg, Mn, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-127-SA7-SB-4.0-5.0MS (SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	COPPER	130	-	75.00-125.00	-	COPPER	J(all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE ANILINE HEXACHLOROBENZENE	- - - 123	- - - -	28.00-109.00 13.00-107.00 18.00-116.00 77.00-114.00	41 (30.00) 69 (30.00) 34 (30.00) -	3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE ANILINE HEXACHLOROBENZENE	J(all detects)
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	2,4-DINITROPHENOL BENZIDINE	0 -	- 0	20.00-143.00 35.00-141.00	200 (30.00) 200 (30.00)	2,4-DINITROPHENOL BENZIDINE	J(all detects) R(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	- - -	- - -	33.00-141.00 22.00-133.00 21.00-143.00	49 (30.00) 41 (30.00) 41 (30.00)	BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	J(all detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5)	FLUORIDE	72	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-126-SA7-SB-4.0-5.0MS (SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	TITANIUM	313	299	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-003-SA8S-SS-0.0-0.5DUP (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	Zirconium	21	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-003-SA8S-SS-0.0-0.5DUP (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	ARSENIC COPPER MOLYBDENUM SILVER VANADIUM	30 23 34 26 23	20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Mo, Ag, No Qual, OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-003-SA8S-SS-0.0-0.5DUP (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	HEXAVALENT CHROMIUM	26	20.00	No Qual OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-003-SA8S-SS-0.0-0.5DUP (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	MERCURY	34	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12810AQ242353A (DUP01 -SA8S -QC-092911 SL -001 -SA8S -SS-0.0-0.5 SL -003 -SA8S -SS-0.0-0.5 SL -005 -SA8S -SS-0.0-0.5 SL -007 -SA8S -SS-0.0-0.5 SL -013 -SA8S -SS-0.0-0.5 SL -014 -SA8S -SS-0.0-0.5 SL -015 -SA8S -SS-0.0-0.5 SL -024 -SA8S -SS-0.0-0.5)	DINOSEB	9	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)
P12810AQ242353A (DUP01 -SA8S -QC-092911 SL -001 -SA8S -SS-0.0-0.5 SL -003 -SA8S -SS-0.0-0.5 SL -005 -SA8S -SS-0.0-0.5 SL -007 -SA8S -SS-0.0-0.5 SL -013 -SA8S -SS-0.0-0.5 SL -014 -SA8S -SS-0.0-0.5 SL -015 -SA8S -SS-0.0-0.5 SL -024 -SA8S -SS-0.0-0.5)	2,4,5-TP (Silvex) DICAMBA MCPA MCPD	63 51 53 47	- - - -	68.00-114.00 54.00-121.00 60.00-130.00 54.00-137.00	- - - -	2,4,5-TP (Silvex) DICAMBA MCPA MCPD	J(all detects) UJ(all non-detects)
P12916AQ240042A ()	DINOSEB	8	-	10.00-36.00	-	DINOSEB	No Assoc. Samples

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27826AQ220409A (DUP01 -SA8S -QC-092911 SL -001 -SA8S -SS-0.0-0.5 SL -003 -SA8S -SS-0.0-0.5 SL -005 -SA8S -SS-0.0-0.5 SL -007 -SA8S -SS-0.0-0.5 SL -013 -SA8S -SS-0.0-0.5 SL -014 -SA8S -SS-0.0-0.5 SL -015 -SA8S -SS-0.0-0.5 SL -024 -SA8S -SS-0.0-0.5 SL -126 -SA7 -SB-4.0-5.0 SL -127 -SA7 -SB-4.0-5.0 SL -177 -SA7 -SB-3.0-4.0)	ANTIMONY	76	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4LALCSQ260257 (DUP01 -SA8S -QC-092911 SL -001 -SA8S -SS-0.0-0.5 SL -003 -SA8S -SS-0.0-0.5 SL -005 -SA8S -SS-0.0-0.5 SL -007 -SA8S -SS-0.0-0.5 SL -013 -SA8S -SS-0.0-0.5 SL -014 -SA8S -SS-0.0-0.5 SL -015 -SA8S -SS-0.0-0.5 SL -024 -SA8S -SS-0.0-0.5 SL -126 -SA7 -SB-4.0-5.0 SL -127 -SA7 -SB-4.0-5.0 SL -177 -SA7 -SB-3.0-4.0)	4-BROMOPHENYL-PHENYLETH HEXACHLOROBENZENE	117 120	- -	73.00-114.00 73.00-119.00	- -	4-BROMOPHENYL-PHENYLET HEXACHLOROBENZENE	J(all detects)
P4LALCSQ260257 (DUP01 -SA8S -QC-092911 SL -001 -SA8S -SS-0.0-0.5 SL -003 -SA8S -SS-0.0-0.5 SL -005 -SA8S -SS-0.0-0.5 SL -007 -SA8S -SS-0.0-0.5 SL -013 -SA8S -SS-0.0-0.5 SL -014 -SA8S -SS-0.0-0.5 SL -015 -SA8S -SS-0.0-0.5 SL -024 -SA8S -SS-0.0-0.5 SL -126 -SA7 -SB-4.0-5.0 SL -127 -SA7 -SB-4.0-5.0 SL -177 -SA7 -SB-3.0-4.0)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	40 47	- -	46.00-120.00 62.00-113.00	- -	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-001-SA8S-SS-0.0-0.5	DECACHLOROBIPHENYL	121	20.00-120.00	All Target Analytes	J (all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-024-SA8S-SS-0.0-0.5	TETRACHLORO-M-XYLENE	45	53.00-139.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-001-SA8S-SS-0.0-0.5	2,4,6-TRIBROMOPHENOL	131	35.00-130.00	No Affected Compounds	J(all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-015-SA8S-SS-0.0-0.5	2-FLUOROBIPHENYL	32	45.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)
	Terphenyl-d14	37	45.00-135.00		

Field Duplicate RPD Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
MOISTURE	3.3	3.1	6		No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
ALUMINUM	17900	19400	8	50.00	No Qualifiers Applied
BORON	11.2	10.4	7	50.00	
CALCIUM	144000	134000	7	50.00	
IRON	20900	21300	2	50.00	
LITHIUM	18.5	18.9	2	50.00	
MAGNESIUM	6100	6510	7	50.00	
MANGANESE	278	268	4	50.00	
PHOSPHORUS	452	455	1	50.00	
POTASSIUM	3130	3360	7	50.00	
SODIUM	121	116	4	50.00	
STRONTIUM	156	151	3	50.00	
TIN	1.94	1.99	3	50.00	
TITANIUM	832	834	0	50.00	
Zirconium	3.40	3.54	4	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
ANTIMONY	0.206	0.253	20	50.00	No Qualifiers Applied
ARSENIC	6.79	8.86	26	50.00	
BARIUM	93.2	108	15	50.00	
BERYLLIUM	0.656	0.749	13	50.00	
CADMIUM	0.300	0.343	13	50.00	
CHROMIUM	29.9	32.6	9	50.00	
COBALT	9.60	10.2	6	50.00	
COPPER	18.8	22.9	20	50.00	
LEAD	20.8	22.9	10	50.00	
MOLYBDENUM	0.322	0.440	31	50.00	
NICKEL	17.1	19.8	15	50.00	
SELENIUM	0.252	0.284	12	50.00	
SILVER	0.0229	0.0184	22	50.00	
THALLIUM	0.257	0.303	16	50.00	
VANADIUM	51.6	61.4	17	50.00	
ZINC	55.1	64.6	16	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
HEXAVALENT CHROMIUM	0.41	0.49	18	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
MERCURY	0.0184	0.0137	29	50.00	No Qualifiers Applied

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
4,4'-DDE	0.48	0.53	10	50.00	No Qualifiers Applied
DELTA-BHC	0.059	0.055	7	50.00	
Chlordane	3.5 U	1.6	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
AROCLOR 1260	1.8 U	0.54	200	50.00	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
2,4-DB	1.8 U	1.9	200	50.00	J(all detects) UJ(all non-detects)
MCPD	280	260 U	200	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
BIS(2-ETHYLHEXYL)PHTHALATE	7.9	7.1	11	50.00	No Qualifiers Applied
Butylbenzylphthalate	20	16	22	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
PH	7.81	7.47	4	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA8S-SS-0.0-0.5	FLUORIDE	J	0.99	1.0	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	TIN	J	1.99	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.54	5.11	PQL	mg/Kg	
SL-001-SA8S-SS-0.0-0.5	TIN	J	2.14	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.86	5.25	PQL	mg/Kg	
SL-003-SA8S-SS-0.0-0.5	TIN	J	1.94	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.40	5.12	PQL	mg/Kg	
SL-005-SA8S-SS-0.0-0.5	TIN	J	1.44	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.30	5.09	PQL	mg/Kg	
SL-007-SA8S-SS-0.0-0.5	TIN	J	1.50	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.00	5.18	PQL	mg/Kg	
SL-013-SA8S-SS-0.0-0.5	SODIUM	J	72.2	99.0	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	9.90	PQL	mg/Kg	
	Zirconium	J	1.71	4.95	PQL	mg/Kg	
SL-014-SA8S-SS-0.0-0.5	SODIUM	J	94.3	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.20	10.4	PQL	mg/Kg	
	Zirconium	J	2.13	5.22	PQL	mg/Kg	
SL-015-SA8S-SS-0.0-0.5	TIN	J	1.91	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.65	5.08	PQL	mg/Kg	
SL-024-SA8S-SS-0.0-0.5	SODIUM	J	104	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.06	10.5	PQL	mg/Kg	
	Zirconium	J	3.31	5.23	PQL	mg/Kg	
SL-126-SA7-SB-4.0-5.0	BORON	J	2.58	5.39	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.6	108	PQL	mg/Kg	
	TIN	J	2.45	10.8	PQL	mg/Kg	
	Zirconium	J	1.76	5.39	PQL	mg/Kg	
SL-127-SA7-SB-4.0-5.0	BORON	J	1.20	5.13	PQL	mg/Kg	J (all detects)
	SODIUM	J	81.2	103	PQL	mg/Kg	
	TIN	J	2.26	10.3	PQL	mg/Kg	
	Zirconium	J	0.573	5.13	PQL	mg/Kg	
SL-177-SA7-SB-3.0-4.0	BORON	J	1.87	5.09	PQL	mg/Kg	J (all detects)
	TIN	J	2.38	10.2	PQL	mg/Kg	
	Zirconium	J	0.838	5.09	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	SELENIUM	J	0.284	0.409	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0184	0.102	PQL	mg/Kg	
SL-001-SA8S-SS-0.0-0.5	SILVER	J	0.0357	0.102	PQL	mg/Kg	J (all detects)
SL-003-SA8S-SS-0.0-0.5	SELENIUM	J	0.252	0.406	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0229	0.101	PQL	mg/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA8S-SS-0.0-0.5	ANTIMONY	J	0.123	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.407	PQL	mg/Kg	
SL-007-SA8S-SS-0.0-0.5	ANTIMONY	J	0.140	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.213	0.414	PQL	mg/Kg	
SL-013-SA8S-SS-0.0-0.5	ANTIMONY	J	0.149	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.221	0.412	PQL	mg/Kg	
	SILVER	J	0.0298	0.103	PQL	mg/Kg	
SL-014-SA8S-SS-0.0-0.5	ANTIMONY	J	0.146	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.315	0.398	PQL	mg/Kg	
	SILVER	J	0.0323	0.0994	PQL	mg/Kg	
SL-015-SA8S-SS-0.0-0.5	ANTIMONY	J	0.122	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.291	0.410	PQL	mg/Kg	
	SILVER	J	0.0292	0.103	PQL	mg/Kg	
SL-024-SA8S-SS-0.0-0.5	ANTIMONY	J	0.113	0.207	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0209	0.104	PQL	mg/Kg	
SL-126-SA7-SB-4.0-5.0	ANTIMONY	J	0.0855	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0991	0.423	PQL	mg/Kg	
	SILVER	J	0.0360	0.106	PQL	mg/Kg	
SL-127-SA7-SB-4.0-5.0	ANTIMONY	J	0.0860	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0757	0.104	PQL	mg/Kg	
SL-177-SA7-SB-3.0-4.0	CADMIUM	J	0.0806	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.176	0.415	PQL	mg/Kg	
	SILVER	J	0.0351	0.104	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)
SL-001-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)
SL-003-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.0	PQL	mg/Kg	J (all detects)
SL-014-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.40	1.0	PQL	mg/Kg	J (all detects)
SL-024-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.73	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	MERCURY	J	0.0137	0.0991	PQL	mg/Kg	J (all detects)
SL-001-SA8S-SS-0.0-0.5	MERCURY	J	0.0132	0.103	PQL	mg/Kg	J (all detects)
SL-003-SA8S-SS-0.0-0.5	MERCURY	J	0.0184	0.101	PQL	mg/Kg	J (all detects)
SL-007-SA8S-SS-0.0-0.5	MERCURY	J	0.0161	0.101	PQL	mg/Kg	J (all detects)
SL-013-SA8S-SS-0.0-0.5	MERCURY	J	0.0194	0.100	PQL	mg/Kg	J (all detects)
SL-014-SA8S-SS-0.0-0.5	MERCURY	J	0.0138	0.0965	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/9/2012 12:15:59 PM

ADR version 1.4.0.111

Page 2 of 4

Reporting Limit Outliers

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA8S-SS-0.0-0.5	MERCURY	J	0.0074	0.101	PQL	mg/Kg	J (all detects)
SL-024-SA8S-SS-0.0-0.5	MERCURY	J	0.0193	0.104	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	Chlordane	J	1.6	3.5	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.055	0.17	PQL	ug/Kg	J (all detects)
SL-001-SA8S-SS-0.0-0.5	Chlordane	J	1.5	3.6	PQL	ug/Kg	J (all detects)
	gamma-BHC (Lindane)	J	0.072	0.18	PQL	ug/Kg	J (all detects)
SL-003-SA8S-SS-0.0-0.5	DELTA-BHC	J	0.059	0.17	PQL	ug/Kg	J (all detects)
SL-007-SA8S-SS-0.0-0.5	Chlordane	J	1.9	3.5	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.045	0.17	PQL	ug/Kg	J (all detects)
SL-013-SA8S-SS-0.0-0.5	Chlordane	J	2.7	3.5	PQL	ug/Kg	J (all detects)
	gamma-BHC (Lindane)	J	0.060	0.17	PQL	ug/Kg	J (all detects)
SL-014-SA8S-SS-0.0-0.5	Chlordane	J	2.4	3.5	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.054	0.17	PQL	ug/Kg	J (all detects)
SL-015-SA8S-SS-0.0-0.5	4,4'-DDT	J	0.29	0.36	PQL	ug/Kg	J (all detects)
	Chlordane	J	1.9	3.6	PQL	ug/Kg	J (all detects)
SL-024-SA8S-SS-0.0-0.5	Chlordane	J	2.9	3.6	PQL	ug/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	AROCLOR 1260	J	0.54	1.7	PQL	ug/Kg	J (all detects)
SL-001-SA8S-SS-0.0-0.5	Aroclor 5460	J	2.8	3.5	PQL	ug/Kg	J (all detects)
SL-013-SA8S-SS-0.0-0.5	AROCLOR 1254	J	1.5	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.5	3.4	PQL	ug/Kg	J (all detects)
SL-014-SA8S-SS-0.0-0.5	AROCLOR 1254	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.4	3.4	PQL	ug/Kg	J (all detects)
SL-015-SA8S-SS-0.0-0.5	AROCLOR 1260	J	0.55	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA8S-SS-0.0-0.5	2,4-DB	J	1.4	1.7	PQL	ug/Kg	J (all detects)
SL-014-SA8S-SS-0.0-0.5	2,4-DB	J	0.94	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE258

Laboratory: LL

EDD Filename: DE258_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	19	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	16	19	PQL	ug/Kg	
SL-001-SA8S-SS-0.0-0.5	BENZO(A)PYRENE	J	0.87	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.91	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.72	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	16	19	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
SL-003-SA8S-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.9	19	PQL	ug/Kg	J (all detects)
SL-013-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	0.41	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.0	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	18	PQL	ug/Kg	
	CHRYSENE	J	0.89	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.93	1.7	PQL	ug/Kg	
SL-014-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	0.78	1.7	PQL	ug/Kg	J (all detects)
ANTHRACENE	J	0.42	1.7	PQL	ug/Kg		
BENZO(G,H,I)PERYLENE	J	1.4	1.7	PQL	ug/Kg		
BIS(2-ETHYLHEXYL)PHTHALATE	J	18	19	PQL	ug/Kg		
DIBENZO(A,H)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg		
INDENO(1,2,3-CD)PYRENE	J	1.3	1.7	PQL	ug/Kg		
SL-015-SA8S-SS-0.0-0.5	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
SL-015-SA8S-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.6	19	PQL	ug/Kg	
SL-127-SA7-SB-4.0-5.0	ACENAPHTHYLENE	J	0.58	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.83	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.9	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.71	1.7	PQL	ug/Kg	
SL-177-SA7-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.6	19	PQL	ug/Kg	J (all detects)

LDC #: 26864B4

VALIDATION COMPLETENESS WORKSHEET

Date: 1/4/12

SDG #: DE258

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

Table with 4 columns: Validation Area, Response, Comments, and Sampling dates. Rows include Technical holding times, ICP/MS Tune, Calibration, Blanks, ICP Interference Check Sample (ICS) Analysis, Matrix Spike Analysis, Duplicate Sample Analysis, Laboratory Control Samples (LCS), Internal Standard (ICP-MS), Furnace Atomic Absorption QC, ICP Serial Dilution, Sample Result Verification, Overall Assessment of Data, Field Duplicates, and Field Blanks.

Note: A = Acceptable, N = Not provided/applicable, SW = See worksheet, ND = No compounds detected, R = Rinsate, FB = Field blank, D = Duplicate, TB = Trip blank, EB = Equipment blank

Validated Samples:

Table with 10 rows and 8 columns listing validated samples with IDs like SL-001-SA8S-SS-0.0-0.5 and associated numbers.

Notes: [Blank lines for notes]



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE258
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423856BKG Matrix Spike Lab Sample ID: 6423857MS Matrix Spike Duplicate Lab Sample ID: 6423858MSD
 & Solids for Sample: 96.7
 Batch Id(s): P27808D, P27826A, P27811B, P28608B

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C				\$R	Q	\$R	Q	%R	RPD
Aluminum	121	17858.0186		23300.3030		23324.8282		206.8252	204.7775	MG/KG	2148	2670	4	74X	20P	
Antimony	75	0.2064		0.5299		0.6505		1.2048	1.2166	MG/KG	27 N	37 N	20	75 - 125	20MS	
Arsenic	137	6.7867		10.6164		11.0438		2.0080	2.0277	MG/KG	191 N	210 N	4	75 - 125	20MS	
Barium	9	93.1525		113.3924		125.6362		10.0401	10.1385	MG/KG	202	320	10	74X	20MS	
Beryllium	9	0.6560		1.5582		1.5978		0.8032	0.8111	MG/KG	112	116	3	75 - 125	20MS	
Boron	111	11.1645		223.4374		218.6962		206.8252	204.7775	MG/KG	103	101	2	84 - 115	20P	
Cadmium	111	0.3001		1.4231		1.6258		1.0040	1.0138	MG/KG	112	131 N	13	75 - 125	20MS	
Calcium	144449.7527	144449.7527		155159.0900		148171.7315		413.6505	409.5549	MG/KG	2589	909	5	74X	20P	
Chromium	52	29.9288		46.7666		51.0169		10.0401	10.1385	MG/KG	168 N	208 N	9	75 - 125	20MS	
Cobalt	59	9.6012		64.7985		75.0654		50.2003	50.6925	MG/KG	110	129 N	15	75 - 125	20MS	
Copper	63	18.7927		31.8471		35.7280		10.0401	10.1385	MG/KG	130 N	167 N	11	75 - 125	20MS	
Iron	20924.6378	20924.6378		21719.1727		21613.1314		103.4126	102.3887	MG/KG	768	672	0	74X	20P	
Lead	208	20.7636		24.3973		28.5297		3.0120	3.0415	MG/KG	121	255	16	74X	20MS	
Lithium	18.4627	18.4627		122.8925		123.0897		103.4126	102.3887	MG/KG	101	102	0	82 - 114	20P	
Magnesium	6096.2884	6096.2884		6407.6267		6695.9311		206.8252	204.7775	MG/KG	151	293	4	74X	20P	
Manganese	278.1615	278.1615		392.4602		335.8524		51.7063	51.1944	MG/KG	221	113	16	74X	20P	
Mercury	0.0184	0.0184		0.1771		0.1746		0.1719	0.1632	MG/KG	92	96	1	65 - 135	20CV	
Molybdenum	98	0.3220		11.9959		13.8755		10.0401	10.1385	MG/KG	116	134 N	15	75 - 125	20MS	
Nickel	60	17.0509		30.7226		35.2008		10.0401	10.1385	MG/KG	136 N	179 N	14	75 - 125	20MS	
Phosphorus	451.9694	451.9694		554.2875		561.3790		103.4126	102.3887	MG/KG	99	107	1		20P	
Potassium	3129.6641	3129.6641		4662.5305		4882.3103		1034.1262	1023.8873	MG/KG	148 N	171 N	5	75 - 125	20P	
Selenium	78	0.2524		2.2450		2.4920		2.0080	2.0277	MG/KG	99	110	10	75 - 125	20MS	
Silver	107	0.0229		11.1083		12.8536		10.0401	10.1385	MG/KG	110	127 N	15	75 - 125	20MS	
Sodium	120.5463	120.5463		1145.3826		1132.5709		1034.1262	1023.8873	MG/KG	99	99	1	75 - 125	20P	
Strontium	155.8316	155.8316		252.2285		244.8186		103.4126	102.3887	MG/KG	93	87	3	75 - 115	20P	
Thallium	203	0.2567		0.7472		0.8413		0.4016	0.4055	MG/KG	122	144 N	12	75 - 125	20MS	
Tin	1.9382	1.9382		335.1375		327.8016		413.6505	409.5549	MG/KG	81	80	2	80 - 110	20P	
Titanium	832.4328	832.4328		1152.5961		1129.9658		102.3887	99.4352	MG/KG	313	299	2	73X	20P	
Vanadium	51	51.6252		76.0635		80.4996		10.0401	10.1385	MG/KG	243	285	6		20MS	
Zinc	66	55.0926		69.6780		73.4027		10.0401	10.1385	MG/KG	145	181	5		20MS	
Zirconium	90	3.4044		102.5222		101.6802		103.4126	102.3887	MG/KG	96	96	1	81 - 110	20P	

METHODS:
 P = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ

FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS

cut across of pit with 1, 2, 6-9
 sb* post spike 86, 5/1/13



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE258
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423870BKG Matrix Spike Lab Sample ID: 6423870MS Matrix Spike Duplicate Lab Sample ID: 6423870MSD
 % Solids for Sample: 95.6
 Batch Id(s): P28026A

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added		MSD Spike Added		Units		MS		MSD		Control Limit				
		Result	C	Result	C	Result	C	Result	C	Added	Added	Q	%R	Q	%R	Q	%R	RPD	Q	RPD	M	
Copper	63	5.0798		18.1827		16.9659		10.0579		10.1556		MG/KG	130	N	117		75	-	125	7	20	MS

Associated with 3-5, 10-12

METHODS: W
 P = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE258

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423856BKG

Duplicate Lab Sample ID: 6423859DUP

% Solids for Duplicate: 96.7

% Solids for Sample: 96.7

Batch ID(s): P27808D, P27826A, P27811B, P28608B

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			17858.0186		18271.4323		2		P
Antimony	121	0.2	0.2064		0.2325		12		MS
Arsenic	75		6.7867		9.1520		30	*	MS
Barium	137		93.1525		111.0691		18		MS
Beryllium	9		0.6560		0.7943		19		MS
Boron		5.1	11.1645		10.9478		2		P
Cadmium	111	0.1	0.3001		0.3639		19		MS
Calcium			144449.7527		138710.8176		4		P
Chromium	52		29.9288		35.0609		16		MS
Cobalt	59		9.6012		9.4821		1		MS
Copper	63		18.7927		23.6855		23	*	MS
Iron			20924.6378		24569.3700		16		P
Lead	208		20.7636		23.8247		14		MS
Lithium			18.4627		18.3289		1		P
Magnesium			6096.2884		6123.6775		0		P
Manganese			278.1615		312.9554		12		P
Mercury			0.0184	B	0.0131	B	34		CV
Molybdenum	98	0.1	0.3220		0.4552		34	*	MS
Nickel	60		17.0509		20.4240		18		MS
Phosphorus			451.9694		459.9704		2		P
Potassium			3129.6641		3148.4160		1		P
Selenium	78		0.2524	B	0.3035	B	18		MS
Silver	107		0.0229	B	0.0176	B	26		MS
Sodium		102.4	120.5463		112.0794		7		P
Strontium			155.8316		154.3215		1		P
Thallium	203	0.1	0.2567		0.3128		20		MS
Tin			1.9382	B	1.9459	B	0		P
Titanium			832.4328		843.8091		1		P
Vanadium	51		51.6252		64.9113		23	*	MS
Zinc	66		55.0926		67.0591		20		MS
Zirconium			3.4044	B	4.1902	B	21		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ). The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

Cu found 1, 2, 6-9*

DE258 3459

<p>METHODS:</p> <p>P = ICP Atomic Emission Spectrometer</p> <p>MS = ICP Mass Spectrometry</p> <p>CV = Cold Vapor</p> <p>AF = Cold Vapor Atomic Fluorescence</p>	<p>CONCENTRATION QUALIFIERS:</p> <p>U = Below MDL</p> <p>B = Below LOQ</p> <p>FLAGS:</p> <p>* = Duplicate Out of Spec</p>
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SAMPLE DELIVERY GROUP

DE259

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3050B	6010B	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3050B	6020	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3060A	7199	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3550B	8081A	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3550B	8082	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3550B	8151A	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3550B	8270C	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3550B	8270C SIM	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	METHOD	300.0	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	METHOD	314.0	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	METHOD	7471A	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3050B	6010B	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3050B	6020	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3060A	7199	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3546	1625C	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3550B	8015B	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3550B	8015M	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3550B	8082	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3550B	8270C	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3550B	8270C SIM	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	5035	8015M	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	300.0	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	314.0	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	7471A	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	8015B	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	8315A	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3050B	6010B	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3050B	6020	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3060A	7199	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3550B	8081A	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3550B	8082	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3550B	8151A	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3550B	8270C	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3550B	8270C SIM	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	METHOD	300.0	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	METHOD	314.0	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	METHOD	7471A	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3050B	6010B	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3050B	6020	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3060A	7199	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3546	1625C	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3550B	8015B	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3550B	8015M	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3550B	8082	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3550B	8270C	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3550B	8270C SIM	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	5035	8015M	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	300.0	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	314.0	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	7471A	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	8015M	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	8315A	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0DUP	P426126D271921A	DUP	3060A	7199	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0MSD	P426126M242136A	MSD	METHOD	8315A	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0MSD	P426126M320535A	MSD	3550B	8015M	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0MS	P426126R242126A	MS	METHOD	8315A	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0MS	P426126R271844A	MS	3060A	7199	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0MS	P426126R320512A	MS	3550B	8015M	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3050B	6010B	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3050B	6020	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3060A	7199	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3550B	8081A	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3550B	8082	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3550B	8151A	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3550B	8270C	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3550B	8270C SIM	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	METHOD	300.0	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	METHOD	314.0	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	METHOD	7471A	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3050B	6010B	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3050B	6020	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3060A	7199	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3550B	8081A	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3550B	8082	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3550B	8151A	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3550B	8270C SIM	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	METHOD	300.0	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	METHOD	314.0	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	METHOD	7471A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3050B	6010B	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3060A	7199	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3550B	8081A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3550B	8082	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3550B	8151A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3550B	8270C	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3550B	8270C SIM	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	METHOD	314.0	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	METHOD	7471A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220509	DUP	3050B	6010B	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220758A	DUP	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220758B	DUP	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220758C	DUP	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220758D	DUP	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220834	DUP	METHOD	7471A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D271213A	DUP	METHOD	314.0	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220516	MSD	3050B	6010B	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220804A	MSD	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220804B	MSD	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220804C	MSD	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220804D	MSD	3050B	6020	III

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Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220837	MSD	METHOD	7471A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M240438A	MSD	3550B	8081A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M241924A	MSD	3550B	8082	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M242028A	MSD	3550B	8151A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M261935	MSD	3550B	8270C	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220512	MS	3050B	6010B	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220801A	MS	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220801B	MS	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220801C	MS	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220801D	MS	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220835	MS	METHOD	7471A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R240423A	MS	3550B	8081A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R241906A	MS	3550B	8082	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R242000A	MS	3550B	8151A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R261910	MS	3550B	8270C	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R271236A	MS	METHOD	314.0	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3050B	6010B	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3050B	6020	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3060A	7199	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3550B	8081A	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3550B	8082	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3550B	8151A	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3550B	8270C	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3550B	8270C SIM	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	METHOD	300.0	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	METHOD	314.0	III

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Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	METHOD	7471A	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3050B	6010B	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3050B	6020	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3060A	7199	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3546	1625C	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3550B	8015B	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3550B	8015M	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3550B	8082	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3550B	8270C	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3550B	8270C SIM	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	5035	8015M	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	300.0	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	314.0	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	7471A	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	8015B	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	8015M	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	8315A	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3050B	6010B	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3050B	6020	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3060A	7199	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3550B	8081A	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3550B	8082	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3550B	8151A	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3550B	8270C	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3550B	8270C SIM	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	METHOD	314.0	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	METHOD	7471A	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5DUP	P426111D221219	DUP	3050B	6010B	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5DUP	P426111D270644A	DUP	METHOD	300.0	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5MSD	P426111M221228	MSD	3050B	6010B	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5MSD	P426111M261143	MSD	3550B	8270C SIM	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5MS	P426111R221223	MS	3050B	6010B	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5MS	P426111R261111	MS	3550B	8270C SIM	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5MS	P426111R270657A	MS	METHOD	300.0	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3050B	6010B	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3050B	6020	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3060A	7199	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3550B	8081A	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3550B	8082	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3550B	8151A	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3550B	8270C	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3550B	8270C SIM	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	METHOD	300.0	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	METHOD	314.0	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	METHOD	7471A	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3050B	6010B	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3050B	6020	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3060A	7199	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3550B	8081A	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3550B	8082	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3550B	8151A	III

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Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3550B	8270C	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3550B	8270C SIM	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	METHOD	300.0	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	METHOD	314.0	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	METHOD	7471A	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3050B	6010B	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3050B	6020	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3060A	7199	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3550B	8081A	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3550B	8082	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3550B	8151A	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3550B	8270C	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3550B	8270C SIM	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	METHOD	300.0	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	METHOD	314.0	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	METHOD	7471A	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5DUP	P426120D270923B	DUP	METHOD	300.0	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5DUP	P426120D271713B	DUP	METHOD	314.0	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5MS	P426120R270935B	MS	METHOD	300.0	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5MS	P426120R271759B	MS	METHOD	314.0	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3050B	6010B	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3050B	6020	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3060A	7199	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3550B	8082	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3550B	8270C	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	METHOD	300.0	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	METHOD	314.0	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	METHOD	7471A	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3050B	6010B	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3050B	6020	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3060A	7199	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3550B	8082	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3550B	8270C	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3550B	8270C SIM	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	METHOD	300.0	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	METHOD	314.0	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	METHOD	7471A	III
30-Sep-2011	FB-SA7-SB-093011	6426129	FB	3520C	1625C	III
30-Sep-2011	EB-SA7-SB-093011	6426130	EB	3520C	1625C	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3050B	6010B	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3050B	6020	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3060A	7199	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3550B	8081A	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3550B	8082	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3550B	8151A	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3550B	8270C	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3550B	8270C SIM	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	METHOD	300.0	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	METHOD	314.0	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	METHOD	7471A	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3050B	6020	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3060A	7199	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3550B	8081A	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3550B	8082	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3550B	8151A	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3550B	8270C	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3550B	8270C SIM	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	METHOD	300.0	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	METHOD	314.0	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	METHOD	7471A	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3050B	6010B	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3050B	6020	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3060A	7199	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3550B	8082	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3550B	8270C	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3550B	8270C SIM	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	METHOD	300.0	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	METHOD	314.0	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	METHOD	7471A	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3050B	6010B	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3050B	6020	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3060A	7199	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3550B	8081A	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3550B	8082	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3550B	8151A	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3550B	8270C SIM	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	METHOD	300.0	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	METHOD	314.0	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	METHOD	7471A	III
30-Sep-2011	TB-092911	6426131	TB	3546	1625C	III
30-Sep-2011	TB-092911	6426132	TB	3520C	1625C	III
30-Sep-2011	TB-092911	6426133	TB	5030B	8015M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-017-SA8S-SS-0.0-0.5		Collected: 9/30/2011 1:47:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.93	J	0.87	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA8S-SS-0.0-0.5		Collected: 9/30/2011 2:00:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.97	J	0.83	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SS-0.0-0.5		Collected: 9/30/2011 11:30:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.87	U	0.87	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-022-SA8S-SS-0.0-0.5		Collected: 9/30/2011 9:05:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-023-SA8S-SS-0.0-0.5		Collected: 9/30/2011 8:45:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.92	J	0.87	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-084-SA7-SB-0.0-1.0		Collected: 9/30/2011 12:05:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-113-SA7-SB-0.0-1.0		Collected: 9/30/2011 2:06:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.2		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-115-SA7-SB-0.5-1.5		Collected: 9/30/2011 12:23:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.4		0.86	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-132-SA7-SB-4.0-5.0

Collected: 9/30/2011 8:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-132-SA7-SB-8.5-9.5

Collected: 9/30/2011 8:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.87	U	0.87	MDL	1.1	PQL	mg/Kg	UJ	Q
Nitrate-NO3	0.93	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-180-SA7-SB-2.0-3.0

Collected: 9/30/2011 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-008-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:20:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	84200		13.4	MDL	107	PQL	mg/Kg	J	E

Sample ID: SL-008-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.28	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
TITANIUM	1020		0.0761	MDL	1.07	PQL	mg/Kg	J	L
Zirconium	4.12	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5

Collected: 9/30/2011 10:23:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	122000		12.9	MDL	104	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-009-SA8S-SS-0.0-0.5

Collected: 9/30/2011 10:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.85	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.48	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:45:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	107000		13.4	MDL	107	PQL	mg/Kg	J	E

Sample ID: SL-010-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.21	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	4.23	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:15:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	70400		13.0	MDL	104	PQL	mg/Kg	J	E

Sample ID: SL-011-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	98.1	J	6.21	MDL	104	PQL	mg/Kg	J	Z
TIN	2.27	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.21	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	36200		2.59	MDL	20.7	PQL	mg/Kg	J	E
TIN	1.98	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.28	J	0.477	MDL	5.18	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-016-SA8S-SS-0.0-0.5

Collected: 9/30/2011 2:17:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	12400		2.61	MDL	20.9	PQL	mg/Kg	J	E
SODIUM	86.5	J	6.20	MDL	104	PQL	mg/Kg	J	Z
TIN	2.19	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.69	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5

Collected: 9/30/2011 1:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	11400		2.57	MDL	20.5	PQL	mg/Kg	J	E
SODIUM	88.5	J	6.11	MDL	103	PQL	mg/Kg	J	Z
TIN	2.30	J	0.328	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.97	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA8S-SS-0.0-0.5

Collected: 9/30/2011 2:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	20800		2.56	MDL	20.4	PQL	mg/Kg	J	E
SODIUM	86.8	J	6.08	MDL	102	PQL	mg/Kg	J	Z
TIN	2.36	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA8S-SS-0.0-0.5

Collected: 9/30/2011 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.70	J	0.354	MDL	4.92	PQL	mg/Kg	J	Z
CALCIUM	3480		2.46	MDL	19.7	PQL	mg/Kg	J	E
SODIUM	57.7	J	5.85	MDL	98.3	PQL	mg/Kg	J	Z
TIN	2.50	J	0.315	MDL	9.83	PQL	mg/Kg	U	B
Zirconium	1.50	J	0.452	MDL	4.92	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5

Collected: 9/30/2011 11:13:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	109000		13.0	MDL	104	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6010B	Matrix:	SO						

Sample ID: SL-020-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:13:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.04	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.21	J	0.479	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	48700		2.65	MDL	21.2	PQL	mg/Kg	J	E
SODIUM	95.7	J	6.31	MDL	106	PQL	mg/Kg	J	Z
TIN	2.23	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.92	J	0.488	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:05:00 Analysis Type: REA Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	100000		13.0	MDL	104	PQL	mg/Kg	J	E

Sample ID: SL-022-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.07	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	4.98	J	0.478	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:45:00 Analysis Type: REA Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	95500		12.8	MDL	102	PQL	mg/Kg	J	E

Sample ID: SL-023-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	94.3	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	1.84	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.23	J	0.470	MDL	5.10	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-084-SA7-SB-0.0-1.0 Collected: 9/30/2011 12:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6950		2.47	MDL	19.8	PQL	mg/Kg	J	E
TIN	2.50	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	1.00	J	0.454	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA7-SB-0.0-1.0 Collected: 9/30/2011 2:06:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6810		2.76	MDL	22.1	PQL	mg/Kg	J	E
TIN	3.10	J	0.353	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-115-SA7-SB-0.5-1.5 Collected: 9/30/2011 12:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2550		2.55	MDL	20.4	PQL	mg/Kg	J	E
TIN	2.34	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	0.913	J	0.469	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA7-SB-4.0-5.0 Collected: 9/30/2011 8:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.556	J	0.363	MDL	5.04	PQL	mg/Kg	J	Z
CALCIUM	3210		2.52	MDL	20.2	PQL	mg/Kg	J	E
TIN	2.29	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.42	J	0.464	MDL	5.04	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA7-SB-8.5-9.5 Collected: 9/30/2011 8:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.07	J	0.367	MDL	5.10	PQL	mg/Kg	J	Z
CALCIUM	2910		2.55	MDL	20.4	PQL	mg/Kg	J	E
TIN	2.46	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.49	J	0.469	MDL	5.10	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-180-SA7-SB-2.0-3.0

Collected: 9/30/2011 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.36	J	0.371	MDL	5.16	PQL	mg/Kg	J	Z
CALCIUM	6720		2.58	MDL	20.6	PQL	mg/Kg	J	E
TIN	2.23	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.08	J	0.474	MDL	5.16	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-008-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:20:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.268	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-008-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:20:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.3		0.109	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-008-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.192	J	0.0763	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	6.55		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.675		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	28.9		0.124	MDL	0.412	PQL	mg/Kg	J	Q, A
COBALT	10.6		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	21.0		0.0824	MDL	0.412	PQL	mg/Kg	J	A
LEAD	21.9		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	19.9		0.103	MDL	0.412	PQL	mg/Kg	J	A
SILVER	0.0303	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	52.9		0.0227	MDL	0.103	PQL	mg/Kg	J	A
ZINC	70.9		0.577	MDL	3.09	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-009-SA8S-SS-0.0-0.5

Collected: 9/30/2011 10:23:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5

Collected: 9/30/2011 10:23:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	63.6		0.110	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-009-SA8S-SS-0.0-0.5

Collected: 9/30/2011 10:23:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0766	U	0.0766	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	4.53		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
BERYLLIUM	0.521		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	25.6		0.124	MDL	0.414	PQL	mg/Kg	J	Q, A
COBALT	5.78		0.0207	MDL	0.104	PQL	mg/Kg	J	A
COPPER	12.4		0.0828	MDL	0.414	PQL	mg/Kg	J	A
LEAD	9.34		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	12.6		0.104	MDL	0.414	PQL	mg/Kg	J	A
VANADIUM	39.3		0.0228	MDL	0.104	PQL	mg/Kg	J	A
ZINC	45.2		0.580	MDL	3.11	PQL	mg/Kg	J	A

Sample ID: SL-010-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.187	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	76.3		0.114	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: SL-010-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0793	MDL	0.214	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-010-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.85		0.0857	MDL	0.429	PQL	mg/Kg	J	Q
BERYLLIUM	0.573		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	26.5		0.129	MDL	0.429	PQL	mg/Kg	J	Q, A
COBALT	9.15		0.0214	MDL	0.107	PQL	mg/Kg	J	A
COPPER	17.2		0.0857	MDL	0.429	PQL	mg/Kg	J	A
LEAD	26.1		0.0109	MDL	0.214	PQL	mg/Kg	J	A
NICKEL	17.5		0.107	MDL	0.429	PQL	mg/Kg	J	A
VANADIUM	44.7		0.0236	MDL	0.107	PQL	mg/Kg	J	A
ZINC	57.3		0.600	MDL	3.22	PQL	mg/Kg	J	A

Sample ID: SL-011-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.259	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	74.7		0.109	MDL	0.413	PQL	mg/Kg	J	A

Sample ID: SL-011-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0764	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	5.57		0.0826	MDL	0.413	PQL	mg/Kg	J	Q
BERYLLIUM	0.591		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	30.1		0.124	MDL	0.413	PQL	mg/Kg	J	Q, A
COBALT	8.24		0.0207	MDL	0.103	PQL	mg/Kg	J	A
COPPER	16.2		0.0826	MDL	0.413	PQL	mg/Kg	J	A
LEAD	19.8		0.0105	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	16.2		0.103	MDL	0.413	PQL	mg/Kg	J	A
SILVER	0.0405	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	51.5		0.0227	MDL	0.103	PQL	mg/Kg	J	A
ZINC	58.7		0.578	MDL	3.10	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-012-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.331	J	0.0607	MDL	0.419	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:00:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	116		0.111	MDL	0.419	PQL	mg/Kg	J	A

Sample ID: SL-012-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.141	J	0.0774	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	8.06		0.0837	MDL	0.419	PQL	mg/Kg	J	Q
BERYLLIUM	0.757		0.0167	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	32.0		0.126	MDL	0.419	PQL	mg/Kg	J	Q, A
COBALT	12.2		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	21.7		0.0837	MDL	0.419	PQL	mg/Kg	J	A
LEAD	17.6		0.0107	MDL	0.209	PQL	mg/Kg	J	A
NICKEL	20.5		0.105	MDL	0.419	PQL	mg/Kg	J	A
SILVER	0.0384	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	64.7		0.0230	MDL	0.105	PQL	mg/Kg	J	A
ZINC	77.0		0.586	MDL	3.14	PQL	mg/Kg	J	A

Sample ID: SL-016-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:17:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.207	J	0.0605	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:17:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.111	MDL	0.417	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-016-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:17:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0772	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	6.22		0.0834	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.698		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	28.8		0.125	MDL	0.417	PQL	mg/Kg	J	Q, A
COBALT	10.1		0.0209	MDL	0.104	PQL	mg/Kg	J	A
COPPER	19.8		0.0834	MDL	0.417	PQL	mg/Kg	J	A
LEAD	14.4		0.0106	MDL	0.209	PQL	mg/Kg	J	A
NICKEL	20.3		0.104	MDL	0.417	PQL	mg/Kg	J	A
SILVER	0.0519	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	49.4		0.0229	MDL	0.104	PQL	mg/Kg	J	A
ZINC	77.5		0.584	MDL	3.13	PQL	mg/Kg	J	A

Sample ID: SL-017-SA8S-SS-0.0-0.5 Collected: 9/30/2011 1:47:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.230	J	0.0619	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 Collected: 9/30/2011 1:47:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.113	MDL	0.427	PQL	mg/Kg	J	A

Sample ID: SL-017-SA8S-SS-0.0-0.5 Collected: 9/30/2011 1:47:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.151	J	0.0790	MDL	0.213	PQL	mg/Kg	J	Z, Q
ARSENIC	5.77		0.0854	MDL	0.427	PQL	mg/Kg	J	Q
BERYLLIUM	0.626		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	26.3		0.128	MDL	0.427	PQL	mg/Kg	J	Q, A
COBALT	9.05		0.0213	MDL	0.107	PQL	mg/Kg	J	A
COPPER	18.5		0.0854	MDL	0.427	PQL	mg/Kg	J	A
LEAD	19.2		0.0109	MDL	0.213	PQL	mg/Kg	J	A
NICKEL	17.4		0.107	MDL	0.427	PQL	mg/Kg	J	A
SILVER	0.0746	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	44.7		0.0235	MDL	0.107	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-017-SA8S-SS-0.0-0.5 Collected: 9/30/2011 1:47:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	83.1		0.597	MDL	3.20	PQL	mg/Kg	J	A

Sample ID: SL-018-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.194	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:00:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.109	MDL	0.413	PQL	mg/Kg	J	A

Sample ID: SL-018-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.120	J	0.0764	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	6.24		0.0826	MDL	0.413	PQL	mg/Kg	J	Q
BERYLLIUM	0.690		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.124	MDL	0.413	PQL	mg/Kg	J	Q, A
COBALT	9.73		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	19.2		0.0826	MDL	0.413	PQL	mg/Kg	J	A
LEAD	13.4		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	19.3		0.103	MDL	0.413	PQL	mg/Kg	J	A
SILVER	0.0484	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	51.0		0.0227	MDL	0.103	PQL	mg/Kg	J	A
ZINC	73.9		0.578	MDL	3.10	PQL	mg/Kg	J	A

Sample ID: SL-019-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:40:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0565	MDL	0.390	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-019-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:40:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	74.6		0.103	MDL	0.390	PQL	mg/Kg	J	A

Sample ID: SL-019-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:40:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0723	J	0.0721	MDL	0.195	PQL	mg/Kg	J	Z, Q
ARSENIC	6.79		0.0779	MDL	0.390	PQL	mg/Kg	J	Q
BERYLLIUM	0.476		0.0156	MDL	0.0974	PQL	mg/Kg	J	Q
CHROMIUM	14.3		0.117	MDL	0.390	PQL	mg/Kg	J	Q, A
COBALT	5.64		0.0195	MDL	0.0974	PQL	mg/Kg	J	A
COPPER	7.44		0.0779	MDL	0.390	PQL	mg/Kg	J	A
LEAD	8.31		0.0099	MDL	0.195	PQL	mg/Kg	J	A
NICKEL	9.48		0.0974	MDL	0.390	PQL	mg/Kg	J	A
SILVER	0.0234	J	0.0138	MDL	0.0974	PQL	mg/Kg	J	Z
VANADIUM	30.6		0.0214	MDL	0.0974	PQL	mg/Kg	J	A
ZINC	55.7		0.545	MDL	2.92	PQL	mg/Kg	J	A

Sample ID: SL-020-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:13:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.235	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:13:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	79.5		0.110	MDL	0.417	PQL	mg/Kg	J	A

Sample ID: SL-020-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:13:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.0771	MDL	0.208	PQL	mg/Kg	J	Z, Q
ARSENIC	5.97		0.0833	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.581		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	27.1		0.125	MDL	0.417	PQL	mg/Kg	J	Q, A
COBALT	8.63		0.0208	MDL	0.104	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-020-SA8S-SS-0.0-0.5

Collected: 9/30/2011 11:13:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	18.0		0.0833	MDL	0.417	PQL	mg/Kg	J	A
LEAD	23.0		0.0106	MDL	0.208	PQL	mg/Kg	J	A
NICKEL	16.5		0.104	MDL	0.417	PQL	mg/Kg	J	A
SILVER	0.0311	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	44.8		0.0229	MDL	0.104	PQL	mg/Kg	J	A
ZINC	63.1		0.583	MDL	3.13	PQL	mg/Kg	J	A

Sample ID: SL-021-SA8S-SS-0.0-0.5

Collected: 9/30/2011 11:30:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.201	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SS-0.0-0.5

Collected: 9/30/2011 11:30:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	88.1		0.111	MDL	0.420	PQL	mg/Kg	J	A

Sample ID: SL-021-SA8S-SS-0.0-0.5

Collected: 9/30/2011 11:30:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0777	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	5.44		0.0840	MDL	0.420	PQL	mg/Kg	J	Q
BERYLLIUM	0.562		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	31.0		0.126	MDL	0.420	PQL	mg/Kg	J	Q, A
COBALT	7.51		0.0210	MDL	0.105	PQL	mg/Kg	J	A
COPPER	15.9		0.0840	MDL	0.420	PQL	mg/Kg	J	A
LEAD	12.8		0.0107	MDL	0.210	PQL	mg/Kg	J	A
NICKEL	16.2		0.105	MDL	0.420	PQL	mg/Kg	J	A
SILVER	0.0342	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	51.1		0.0231	MDL	0.105	PQL	mg/Kg	J	A
ZINC	61.2		0.588	MDL	3.15	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-022-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.249	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:05:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	73.7		0.112	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-022-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.120	J	0.0785	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	6.00		0.0848	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.547		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	34.0		0.127	MDL	0.424	PQL	mg/Kg	J	Q, A
COBALT	7.64		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	14.8		0.0848	MDL	0.424	PQL	mg/Kg	J	A
LEAD	11.9		0.0108	MDL	0.212	PQL	mg/Kg	J	A
NICKEL	15.2		0.106	MDL	0.424	PQL	mg/Kg	J	A
SILVER	0.0264	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	53.2		0.0233	MDL	0.106	PQL	mg/Kg	J	A
ZINC	58.8		0.594	MDL	3.18	PQL	mg/Kg	J	A

Sample ID: SL-023-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.266	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:45:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.5		0.109	MDL	0.412	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-023-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0763	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	6.80		0.0825	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.617		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	31.4		0.124	MDL	0.412	PQL	mg/Kg	J	Q, A
COBALT	8.67		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	15.8		0.0825	MDL	0.412	PQL	mg/Kg	J	A
LEAD	16.7		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	17.5		0.103	MDL	0.412	PQL	mg/Kg	J	A
SILVER	0.0485	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	53.8		0.0227	MDL	0.103	PQL	mg/Kg	J	A
ZINC	62.8		0.577	MDL	3.09	PQL	mg/Kg	J	A

Sample ID: SL-084-SA7-SB-0.0-1.0

Collected: 9/30/2011 12:05:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA7-SB-0.0-1.0

Collected: 9/30/2011 12:05:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.108	MDL	0.407	PQL	mg/Kg	J	A

Sample ID: SL-084-SA7-SB-0.0-1.0

Collected: 9/30/2011 12:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0841	J	0.0753	MDL	0.203	PQL	mg/Kg	J	Z, Q
ARSENIC	7.46		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
BERYLLIUM	0.815		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	41.6		0.122	MDL	0.407	PQL	mg/Kg	J	Q, A
COBALT	10.3		0.0203	MDL	0.102	PQL	mg/Kg	J	A
COPPER	15.9		0.0814	MDL	0.407	PQL	mg/Kg	J	A
LEAD	6.89		0.0104	MDL	0.203	PQL	mg/Kg	J	A
NICKEL	29.2		0.102	MDL	0.407	PQL	mg/Kg	J	A
SILVER	0.0736	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	58.8		0.0224	MDL	0.102	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-084-SA7-SB-0.0-1.0

Collected: 9/30/2011 12:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	77.0		0.570	MDL	3.05	PQL	mg/Kg	J	A

Sample ID: SL-113-SA7-SB-0.0-1.0

Collected: 9/30/2011 2:06:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	1.64		0.0442	MDL	0.276	PQL	mg/Kg	J	Q

Sample ID: SL-113-SA7-SB-0.0-1.0

Collected: 9/30/2011 2:06:00

Analysis Type: REA4

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	298		0.293	MDL	1.10	PQL	mg/Kg	J	A

Sample ID: SL-113-SA7-SB-0.0-1.0

Collected: 9/30/2011 2:06:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.214	J	0.0817	MDL	0.221	PQL	mg/Kg	J	Z, Q
ARSENIC	13.8		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
CHROMIUM	53.2		0.132	MDL	0.442	PQL	mg/Kg	J	Q, A
COBALT	20.1		0.0221	MDL	0.110	PQL	mg/Kg	J	A
COPPER	45.8		0.0883	MDL	0.442	PQL	mg/Kg	J	A
LEAD	18.7		0.0113	MDL	0.221	PQL	mg/Kg	J	A
NICKEL	58.3		0.110	MDL	0.442	PQL	mg/Kg	J	A
VANADIUM	80.4		0.0243	MDL	0.110	PQL	mg/Kg	J	A
ZINC	113		0.618	MDL	3.31	PQL	mg/Kg	J	A

Sample ID: SL-115-SA7-SB-0.5-1.5

Collected: 9/30/2011 12:23:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.192	J	0.0597	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-115-SA7-SB-0.5-1.5

Collected: 9/30/2011 12:23:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.7		0.109	MDL	0.411	PQL	mg/Kg	J	A

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-115-SA7-SB-0.5-1.5 Collected: 9/30/2011 12:23:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0782	J	0.0761	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.86		0.0823	MDL	0.411	PQL	mg/Kg	J	Q
BERYLLIUM	0.576		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	27.0		0.123	MDL	0.411	PQL	mg/Kg	J	Q, A
COBALT	6.14		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	7.81		0.0823	MDL	0.411	PQL	mg/Kg	J	A
LEAD	4.62		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	14.0		0.103	MDL	0.411	PQL	mg/Kg	J	A
SILVER	0.0290	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	43.8		0.0226	MDL	0.103	PQL	mg/Kg	J	A
ZINC	52.7		0.576	MDL	3.09	PQL	mg/Kg	J	A

Sample ID: SL-132-SA7-SB-4.0-5.0 Collected: 9/30/2011 8:23:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA7-SB-4.0-5.0 Collected: 9/30/2011 8:23:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	105		0.108	MDL	0.407	PQL	mg/Kg	J	A

Sample ID: SL-132-SA7-SB-4.0-5.0 Collected: 9/30/2011 8:23:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	5.81		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
BERYLLIUM	0.619		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	19.7		0.122	MDL	0.407	PQL	mg/Kg	J	Q, A
COBALT	6.82		0.0204	MDL	0.102	PQL	mg/Kg	J	A
COPPER	9.14		0.0814	MDL	0.407	PQL	mg/Kg	J	A
LEAD	6.71		0.0104	MDL	0.204	PQL	mg/Kg	J	A
NICKEL	12.8		0.102	MDL	0.407	PQL	mg/Kg	J	A
SILVER	0.0302	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	38.3		0.0224	MDL	0.102	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-132-SA7-SB-4.0-5.0 Collected: 9/30/2011 8:23:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	66.8		0.570	MDL	3.05	PQL	mg/Kg	J	A

Sample ID: SL-132-SA7-SB-8.5-9.5 Collected: 9/30/2011 8:10:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.8		0.109	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-132-SA7-SB-8.5-9.5 Collected: 9/30/2011 8:10:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0762	U	0.0762	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	6.94		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.579		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	15.2		0.124	MDL	0.412	PQL	mg/Kg	J	Q, A
COBALT	9.74		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	6.53		0.0824	MDL	0.412	PQL	mg/Kg	J	A
LEAD	6.01		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	10.5		0.103	MDL	0.412	PQL	mg/Kg	J	A
SILVER	0.0172	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	36.3		0.0226	MDL	0.103	PQL	mg/Kg	J	A
ZINC	55.4		0.577	MDL	3.09	PQL	mg/Kg	J	A

Sample ID: SL-180-SA7-SB-2.0-3.0 Collected: 9/30/2011 9:50:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.3		0.107	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-180-SA7-SB-2.0-3.0 Collected: 9/30/2011 9:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0748	U	0.0748	MDL	0.202	PQL	mg/Kg	UJ	Q
ARSENIC	2.86		0.0809	MDL	0.405	PQL	mg/Kg	J	Q
BERYLLIUM	0.383		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	11.7		0.121	MDL	0.405	PQL	mg/Kg	J	Q, A
COBALT	4.30		0.0202	MDL	0.101	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-180-SA7-SB-2.0-3.0 Collected: 9/30/2011 9:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	5.16		0.0809	MDL	0.405	PQL	mg/Kg	J	A
LEAD	3.63		0.0103	MDL	0.202	PQL	mg/Kg	J	A
NICKEL	7.43		0.101	MDL	0.405	PQL	mg/Kg	J	A
VANADIUM	24.9		0.0222	MDL	0.101	PQL	mg/Kg	J	A
ZINC	50.5		0.566	MDL	3.03	PQL	mg/Kg	J	A

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-008-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.62	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:17:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:13:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.73	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-021-SA8S-SS-0.0-0.5

Collected: 9/30/2011 11:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.82	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA7-SB-0.0-1.0

Collected: 9/30/2011 12:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA7-SB-0.0-1.0

Collected: 9/30/2011 2:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.78	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-115-SA7-SB-0.5-1.5

Collected: 9/30/2011 12:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA7-SB-4.0-5.0

Collected: 9/30/2011 8:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA7-SB-8.5-9.5

Collected: 9/30/2011 8:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-180-SA7-SB-2.0-3.0 Collected: 9/30/2011 9:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-008-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0414	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0148	J	0.0073	MDL	0.104	PQL	mg/Kg	U	B

Sample ID: SL-010-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0308	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0257	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0329	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:17:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0294	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-017-SA8S-SS-0.0-0.5 Collected: 9/30/2011 1:47:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0343	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0123	J	0.0072	MDL	0.102	PQL	mg/Kg	U	B

Sample ID: SL-019-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0098	J	0.0072	MDL	0.102	PQL	mg/Kg	U	B

Sample ID: SL-020-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:13:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0160	J	0.0073	MDL	0.104	PQL	mg/Kg	U	B

Sample ID: SL-021-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0199	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0281	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0248	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA7-SB-0.0-1.0 Collected: 9/30/2011 2:06:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0667	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Method Category: SVOA

Method: 1625C

Matrix: AQ

Sample ID: EB-SA7-SB-093011

Collected: 9/30/2011 12:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.952	J	0.478	MDL	0.956	PQL	ng/L	UJ	S, T

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-132-SA7-SB-4.0-5.0

Collected: 9/30/2011 8:23:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.54	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C21-C30)	7.4		0.42	MDL	1.3	PQL	mg/Kg	J	Q, Q

Sample ID: SL-132-SA7-SB-8.5-9.5

Collected: 9/30/2011 8:10:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.48	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-180-SA7-SB-2.0-3.0

Collected: 9/30/2011 9:50:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.56	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-009-SA8S-SS-0.0-0.5

Collected: 9/30/2011 10:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.3	J	0.84	MDL	3.6	PQL	ug/Kg	J	Z
DELTA-BHC	0.040	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z
TOXAPHENE	4.7	J	4.6	MDL	7.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8081A	Matrix:	SO

Sample ID: SL-010-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:45:00 Analysis Type: DL-BASE/NEUTRAL Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	3.2	J	0.71	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.6	J	0.85	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:17:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.3	J	0.83	MDL	3.5	PQL	ug/Kg	J	Z
DIELDRIN	0.33	J	0.069	MDL	0.35	PQL	ug/Kg	J	Z
ENDOSULFAN I	0.12	J	0.046	MDL	0.17	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.11	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 Collected: 9/30/2011 1:47:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.2	J	0.86	MDL	3.7	PQL	ug/Kg	J	Z, S

Sample ID: SL-019-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.6		0.067	MDL	0.35	PQL	ug/Kg	J	S
4,4'-DDT	2.0		0.067	MDL	0.35	PQL	ug/Kg	J	S
Chlordane	2.7	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, S

Sample ID: SL-023-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	3.0	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.40	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: SL-008-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.2	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.4	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:17:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.1	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.4	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 Collected: 9/30/2011 1:47:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.5	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:13:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.4	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-084-SA7-SB-0.0-1.0 Collected: 9/30/2011 12:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.65	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-132-SA7-SB-4.0-5.0

Collected: 9/30/2011 8:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOR 1254	0.66	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-008-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.6	PQL	ug/Kg	R	Q
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L
MCPP	190	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5

Collected: 9/30/2011 10:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPP	110	J	79	MDL	260	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-011-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-012-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.4	J	0.66	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8151A	Matrix:	SO

Sample ID: SL-016-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:17:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-017-SA8S-SS-0.0-0.5 Collected: 9/30/2011 1:47:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.45	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-018-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-019-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.61	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-020-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:13:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-021-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-022-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8151A	Matrix: SO

Sample ID: SL-023-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-008-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q

Sample ID: SL-010-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:17:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZYL ALCOHOL	230	J	170	MDL	520	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	36	J	17	MDL	350	PQL	ug/Kg	J	Z
PHENOL	30	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 Collected: 9/30/2011 1:47:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	18	MDL	360	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-018-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:13:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	18	MDL	360	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-008-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.48	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.80	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	22		6.4	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	0.84	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:23:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.75	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	0.93	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	24		6.3	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	6.4	J	6.3	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.7	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.92	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-010-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.37	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	25		6.4	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	0.97	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.95	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	1.6	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.56	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	60		6.4	MDL	19	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.93	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.97	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5

Collected: 9/30/2011 2:17:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
DI-n-butylphthalate	8.0	J	6.2	MDL	19	PQL	ug/Kg	J	Z
PHENANTHRENE	0.73	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5

Collected: 9/30/2011 1:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.46	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-018-SA8S-SS-0.0-0.5 Collected: 9/30/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.99	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.95	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.88	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.91	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA8S-SS-0.0-0.5 Collected: 9/30/2011 10:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.52	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.84	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	51		6.1	MDL	18	PQL	ug/Kg	U	B
FLUORENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.81	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:13:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.75	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
FLUORENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.79	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	5.5		0.36	MDL	1.8	PQL	ug/Kg	J	S

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-021-SA8S-SS-0.0-0.5 Collected: 9/30/2011 11:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	19		0.71	MDL	1.8	PQL	ug/Kg	J	S
BENZO(A)PYRENE	7.6		0.71	MDL	1.8	PQL	ug/Kg	J	S
BENZO(B)FLUORANTHENE	8.1		0.71	MDL	1.8	PQL	ug/Kg	J	S
BENZO(G,H,I)PERYLENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, S
BENZO(K)FLUORANTHENE	33		0.71	MDL	1.8	PQL	ug/Kg	J	S
BIS(2-ETHYLHEXYL)PHTHALATE	300		6.4	MDL	19	PQL	ug/Kg	J	S
CHRYSENE	16		0.36	MDL	1.8	PQL	ug/Kg	J	S
DIBENZO(A,H)ANTHRACENE	2.2		0.71	MDL	1.8	PQL	ug/Kg	J	S
FLUORANTHENE	14		0.71	MDL	1.8	PQL	ug/Kg	J	S
FLUORENE	5.2		0.71	MDL	1.8	PQL	ug/Kg	J	S
INDENO(1,2,3-CD)PYRENE	0.84	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, S
NAPHTHALENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, S
PHENANTHRENE	3.1		0.71	MDL	1.8	PQL	ug/Kg	J	S
PYRENE	6.8		0.71	MDL	1.8	PQL	ug/Kg	J	S

Sample ID: SL-022-SA8S-SS-0.0-0.5 Collected: 9/30/2011 9:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	6.3	MDL	19	PQL	ug/Kg	U	B
CHRYSENE	0.51	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5 Collected: 9/30/2011 8:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-132-SA7-SB-4.0-5.0 Collected: 9/30/2011 8:23:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.4	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.79	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.72	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE259
EDD Filename: DE259_v1.

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
**	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE259

Method Blank Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method:	6010B			
Matrix:	SO			
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27908CB220751	10/13/2011 7:51:00 AM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	8.43 mg/Kg 6.68 mg/Kg 0.579 mg/Kg 0.221 mg/Kg 1.26 mg/Kg 0.0353 mg/Kg 1.44 mg/Kg	SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA8S-SS-0.0-0.5(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	TIN	1.85 mg/Kg	1.85U mg/Kg
SL-010-SA8S-SS-0.0-0.5(RES)	TIN	2.21 mg/Kg	2.21U mg/Kg
SL-011-SA8S-SS-0.0-0.5(RES)	TIN	2.27 mg/Kg	2.27U mg/Kg
SL-012-SA8S-SS-0.0-0.5(RES)	TIN	1.98 mg/Kg	1.98U mg/Kg
SL-016-SA8S-SS-0.0-0.5(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-017-SA8S-SS-0.0-0.5(RES)	TIN	2.30 mg/Kg	2.30U mg/Kg
SL-018-SA8S-SS-0.0-0.5(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	TIN	2.04 mg/Kg	2.04U mg/Kg
SL-021-SA8S-SS-0.0-0.5(RES)	TIN	2.23 mg/Kg	2.23U mg/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	TIN	2.07 mg/Kg	2.07U mg/Kg
SL-023-SA8S-SS-0.0-0.5(RES)	TIN	1.84 mg/Kg	1.84U mg/Kg
SL-084-SA7-SB-0.0-1.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-113-SA7-SB-0.0-1.0(RES)	TIN	3.10 mg/Kg	3.10U mg/Kg
SL-115-SA7-SB-0.5-1.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-132-SA7-SB-4.0-5.0(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-132-SA7-SB-8.5-9.5(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-180-SA7-SB-2.0-3.0(RES)	TIN	2.23 mg/Kg	2.23U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27926AB220746A	10/10/2011 7:46:00 AM	COPPER LEAD	0.122 mg/Kg 0.0700 mg/Kg	SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-8.5 SL-180-SA7-SB-2.0-3.0

Method: 8151A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P83832AB241715A	10/12/2011 5:15:00 PM	2,4,5-T	0.10 ug/Kg	SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLA28B261652	10/14/2011 4:52:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	22 ug/Kg	22U ug/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	24 ug/Kg	24U ug/Kg
SL-010-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	25 ug/Kg	25U ug/Kg
SL-011-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	60 ug/Kg	60U ug/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	51 ug/Kg	51U ug/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	7.5 ug/Kg	19U ug/Kg

Trip Blank Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-092911(RES)	9/30/2011 2:30:00 PM	N-NITROSODIMETHYLAMINE	4.12 ng/L	EB-SA7-SB-093011 FB-SA7-SB-093011 SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-093011(RES)	N-NITROSODIMETHYLAMINE	0.952 ng/L	0.956U ng/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA7-SB-4.0-5.0MS SL-132-SA7-SB-4.0-5.0MSD (SL-132-SA7-SB-4.0-5.0)	EFH (C30-C40)	-29	283	49.00-123.00	34 (20.00)	EFH (C30-C40)	No Qual, >4x
SL-132-SA7-SB-4.0-5.0MS SL-132-SA7-SB-4.0-5.0MSD (SL-132-SA7-SB-4.0-5.0)	EFH (C21-C30)	24	-	49.00-123.00	23 (20.00)	EFH (C21-C30)	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	2,4,5-T MCPA	-	-	10.00-156.00 10.00-213.00	117 (35.00) 71 (50.00)	2,4,5-T MCPA	J(all detects)
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	DALAPON	0	0	10.00-125.00	-	DALAPON	J(all detects) R(all non-detects)
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	DINOSEB	9	-	10.00-46.00	43 (35.00)	DINOSEB	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	4,4'-DDE DELTA-BHC ENDRIN ALDEHYDE	238 1581 226	- 188 174	18.00-161.00 23.00-140.00 10.00-148.00	- 158 (50.00) -	4,4'-DDE DELTA-BHC ENDRIN ALDEHYDE	J(all detects) 4,4'-DDE No Qual, >4x
SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	4,4'-DDT	-	-5	10.00-176.00	-	4,4'-DDT	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	ARSENIC CHROMIUM LEAD VANADIUM ZINC	146 132 242 178 143	- - 131 137 -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ARSENIC CHROMIUM LEAD VANADIUM ZINC	J(all detects) Pb, V, Zn, No Qual, >4x
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	ANTIMONY	21	20	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) Post Spike = 97%
SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	BERYLLIUM	-	72	75.00-125.00	-	BERYLLIUM	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020							
Matrix: SO							
QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	BARIUM	183	73	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B							
Matrix: SO							
QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	ALUMINUM IRON MAGNESIUM POTASSIUM TITANIUM	3710 2084 591 185 376	3342 829 471 206 379	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM IRON MAGNESIUM POTASSIUM TITANIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	CALCIUM MANGANESE	-3536 3	-4031 18	75.00-125.00 75.00-125.00	- -	CALCIUM MANGANESE	No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS (SL-008-SA8S-SS-0.0-0.5)	BIS(2-CHLOROETHOXY)METHA ISOPHORONE	105 106	-	75.00-104.00 73.00-102.00	-	BIS(2-CHLOROETHOXY)METH ISOPHORONE	J(all detects)
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-021-SA8S-SS-0.0-0.5MS (SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	FLUORIDE	77	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA8S-SS-0.0-0.5MS SL-009-SA8S-SS-0.0-0.5MSD (SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	TITANIUM	339	367	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-132-SA7-SB-4.0-5.0DUP (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	HEXAVALENT CHROMIUM	39	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA8S-SS-0.0-0.5DUP (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	CALCIUM	23	20.00	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA8S-SS-0.0-0.5DUP (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	ANTIMONY	42	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12832AQ241743A (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5)	DINOSEB	8	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12847AQ241845A (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5)	METHOXYCHLOR	143	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27926AQ220749A (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	ANTIMONY	78	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27908CQ220755 (SL-008-SA8S-SS-0.0-0.5)	TITANIUM	77	-	80.00-120.00	-	TITANIUM	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-093011	N-Nitrosodimethylamine-d6	267	50.00-150.00	All Target Analytes	J (all detects)

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-132-SA7-SB-4.0-5.0	N-Nitrosodimethylamine-d6	196	50.00-150.00	All Target Analytes	No Qual, Diluted Out

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-017-SA8S-SS-0.0-0.5	DECACHLOROBIPHENYL	132	20.00-120.00	All Target Analytes	J(all detects)
SL-019-SA8S-SS-0.0-0.5	DECACHLOROBIPHENYL	129	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-115-SA7-SB-0.5-1.5	DECACHLOROBIPHENYL	135	45.00-120.00	All Target Analytes	J(all detects)
SL-132-SA7-SB-4.0-5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	170 155	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5	Nitrobenzene-d5	137	40.00-130.00	No Affected Compounds	J(all detects)
SL-011-SA8S-SS-0.0-0.5	Terphenyl-d14	146	45.00-135.00	No Affected Compounds	J(all detects)
SL-019-SA8S-SS-0.0-0.5	Nitrobenzene-d5	139	40.00-130.00	No Affected Compounds	J(all detects)
SL-021-SA8S-SS-0.0-0.5	Nitrobenzene-d5 Terphenyl-d14	221 194	40.00-130.00 45.00-135.00	All Base/Neutral Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-093011	N-NITROSODIMETHYLAMINE	J	0.952	0.956	PQL	ng/L	J (all detects)

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA8S-SS-0.0-0.5	FLUORIDE	J	0.93	1.1	PQL	mg/Kg	J (all detects)
SL-018-SA8S-SS-0.0-0.5	FLUORIDE	J	0.97	1.0	PQL	mg/Kg	J (all detects)
SL-023-SA8S-SS-0.0-0.5	FLUORIDE	J	0.92	1.1	PQL	mg/Kg	J (all detects)
SL-132-SA7-SB-8.5-9.5	Nitrate-NO3	J	0.93	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	TIN	J	2.28	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.12	5.36	PQL	mg/Kg	
SL-009-SA8S-SS-0.0-0.5	TIN	J	1.85	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.48	5.18	PQL	mg/Kg	
SL-010-SA8S-SS-0.0-0.5	TIN	J	2.21	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.23	5.36	PQL	mg/Kg	
SL-011-SA8S-SS-0.0-0.5	SODIUM	J	98.1	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.27	10.4	PQL	mg/Kg	
	Zirconium	J	3.21	5.21	PQL	mg/Kg	
SL-012-SA8S-SS-0.0-0.5	TIN	J	1.98	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.28	5.18	PQL	mg/Kg	
SL-016-SA8S-SS-0.0-0.5	SODIUM	J	86.5	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.19	10.4	PQL	mg/Kg	
	Zirconium	J	2.69	5.21	PQL	mg/Kg	
SL-017-SA8S-SS-0.0-0.5	SODIUM	J	88.5	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.30	10.3	PQL	mg/Kg	
	Zirconium	J	2.97	5.13	PQL	mg/Kg	
SL-018-SA8S-SS-0.0-0.5	SODIUM	J	86.8	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	10.2	PQL	mg/Kg	
	Zirconium	J	3.05	5.11	PQL	mg/Kg	
SL-019-SA8S-SS-0.0-0.5	BORON	J	1.70	4.92	PQL	mg/Kg	J (all detects)
	SODIUM	J	57.7	98.3	PQL	mg/Kg	
	TIN	J	2.50	9.83	PQL	mg/Kg	
	Zirconium	J	1.50	4.92	PQL	mg/Kg	
SL-020-SA8S-SS-0.0-0.5	TIN	J	2.04	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.21	5.21	PQL	mg/Kg	
SL-021-SA8S-SS-0.0-0.5	SODIUM	J	95.7	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.23	10.6	PQL	mg/Kg	
	Zirconium	J	3.92	5.30	PQL	mg/Kg	
SL-022-SA8S-SS-0.0-0.5	TIN	J	2.07	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.98	5.20	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA8S-SS-0.0-0.5	SODIUM	J	94.3	102	PQL	mg/Kg	J (all detects)
	TIN	J	1.84	10.2	PQL	mg/Kg	
	Zirconium	J	2.23	5.10	PQL	mg/Kg	
SL-084-SA7-SB-0.0-1.0	TIN	J	2.50	9.88	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.00	4.94	PQL	mg/Kg	
SL-113-SA7-SB-0.0-1.0	TIN	J	3.10	11.0	PQL	mg/Kg	J (all detects)
SL-115-SA7-SB-0.5-1.5	TIN	J	2.34	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.913	5.09	PQL	mg/Kg	
SL-132-SA7-SB-4.0-5.0	BORON	J	0.556	5.04	PQL	mg/Kg	J (all detects)
	TIN	J	2.29	10.1	PQL	mg/Kg	
	Zirconium	J	1.42	5.04	PQL	mg/Kg	
SL-132-SA7-SB-8.5-9.5	BORON	J	1.07	5.10	PQL	mg/Kg	J (all detects)
	TIN	J	2.46	10.2	PQL	mg/Kg	
	Zirconium	J	1.49	5.10	PQL	mg/Kg	
SL-180-SA7-SB-2.0-3.0	BORON	J	1.36	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.23	10.3	PQL	mg/Kg	
	Zirconium	J	1.08	5.16	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	ANTIMONY	J	0.192	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.268	0.412	PQL	mg/Kg	
	SILVER	J	0.0303	0.103	PQL	mg/Kg	
SL-009-SA8S-SS-0.0-0.5	SELENIUM	J	0.167	0.414	PQL	mg/Kg	J (all detects)
SL-010-SA8S-SS-0.0-0.5	ANTIMONY	J	0.134	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.187	0.429	PQL	mg/Kg	
SL-011-SA8S-SS-0.0-0.5	ANTIMONY	J	0.105	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.259	0.413	PQL	mg/Kg	
	SILVER	J	0.0405	0.103	PQL	mg/Kg	
SL-012-SA8S-SS-0.0-0.5	ANTIMONY	J	0.141	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.331	0.419	PQL	mg/Kg	
	SILVER	J	0.0384	0.105	PQL	mg/Kg	
SL-016-SA8S-SS-0.0-0.5	ANTIMONY	J	0.132	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.207	0.417	PQL	mg/Kg	
	SILVER	J	0.0519	0.104	PQL	mg/Kg	
SL-017-SA8S-SS-0.0-0.5	ANTIMONY	J	0.151	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.230	0.427	PQL	mg/Kg	
	SILVER	J	0.0746	0.107	PQL	mg/Kg	
SL-018-SA8S-SS-0.0-0.5	ANTIMONY	J	0.120	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.194	0.413	PQL	mg/Kg	
	SILVER	J	0.0484	0.103	PQL	mg/Kg	
SL-019-SA8S-SS-0.0-0.5	ANTIMONY	J	0.0723	0.195	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.390	PQL	mg/Kg	
	SILVER	J	0.0234	0.0974	PQL	mg/Kg	
SL-020-SA8S-SS-0.0-0.5	ANTIMONY	J	0.182	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.235	0.417	PQL	mg/Kg	
	SILVER	J	0.0311	0.104	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-021-SA8S-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.105	0.210	PQL	mg/Kg	J (all detects)
		J	0.201	0.420	PQL	mg/Kg	
		J	0.0342	0.105	PQL	mg/Kg	
SL-022-SA8S-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.120	0.212	PQL	mg/Kg	J (all detects)
		J	0.249	0.424	PQL	mg/Kg	
		J	0.0264	0.106	PQL	mg/Kg	
SL-023-SA8S-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.134	0.206	PQL	mg/Kg	J (all detects)
		J	0.266	0.412	PQL	mg/Kg	
		J	0.0485	0.103	PQL	mg/Kg	
SL-084-SA7-SB-0.0-1.0	ANTIMONY SELENIUM SILVER	J	0.0841	0.203	PQL	mg/Kg	J (all detects)
		J	0.149	0.407	PQL	mg/Kg	
		J	0.0736	0.102	PQL	mg/Kg	
SL-113-SA7-SB-0.0-1.0	ANTIMONY	J	0.214	0.221	PQL	mg/Kg	J (all detects)
SL-115-SA7-SB-0.5-1.5	ANTIMONY SELENIUM SILVER	J	0.0782	0.206	PQL	mg/Kg	J (all detects)
		J	0.192	0.411	PQL	mg/Kg	
		J	0.0290	0.103	PQL	mg/Kg	
SL-132-SA7-SB-4.0-5.0	ANTIMONY SELENIUM SILVER	J	0.145	0.204	PQL	mg/Kg	J (all detects)
		J	0.122	0.407	PQL	mg/Kg	
		J	0.0302	0.102	PQL	mg/Kg	
SL-132-SA7-SB-8.5-9.5	SILVER	J	0.0172	0.103	PQL	mg/Kg	J (all detects)

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.69	1.1	PQL	mg/Kg	J (all detects)
SL-009-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.62	1.1	PQL	mg/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.0	PQL	mg/Kg	J (all detects)
SL-019-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.0	PQL	mg/Kg	J (all detects)
SL-020-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.73	1.1	PQL	mg/Kg	J (all detects)
SL-021-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.77	1.1	PQL	mg/Kg	J (all detects)
SL-022-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.82	1.1	PQL	mg/Kg	J (all detects)
SL-023-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.0	PQL	mg/Kg	J (all detects)
SL-084-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.32	1.0	PQL	mg/Kg	J (all detects)
SL-113-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.78	1.2	PQL	mg/Kg	J (all detects)
SL-115-SA7-SB-0.5-1.5	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)
SL-132-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.30	1.0	PQL	mg/Kg	J (all detects)
SL-132-SA7-SB-8.5-9.5	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)
SL-180-SA7-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.28	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	MERCURY	J	0.0414	0.107	PQL	mg/Kg	J (all detects)
SL-009-SA8S-SS-0.0-0.5	MERCURY	J	0.0148	0.104	PQL	mg/Kg	J (all detects)
SL-010-SA8S-SS-0.0-0.5	MERCURY	J	0.0308	0.104	PQL	mg/Kg	J (all detects)
SL-011-SA8S-SS-0.0-0.5	MERCURY	J	0.0257	0.105	PQL	mg/Kg	J (all detects)
SL-012-SA8S-SS-0.0-0.5	MERCURY	J	0.0329	0.102	PQL	mg/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	MERCURY	J	0.0294	0.102	PQL	mg/Kg	J (all detects)
SL-017-SA8S-SS-0.0-0.5	MERCURY	J	0.0343	0.102	PQL	mg/Kg	J (all detects)
SL-018-SA8S-SS-0.0-0.5	MERCURY	J	0.0123	0.102	PQL	mg/Kg	J (all detects)
SL-019-SA8S-SS-0.0-0.5	MERCURY	J	0.0098	0.102	PQL	mg/Kg	J (all detects)
SL-020-SA8S-SS-0.0-0.5	MERCURY	J	0.0160	0.104	PQL	mg/Kg	J (all detects)
SL-021-SA8S-SS-0.0-0.5	MERCURY	J	0.0199	0.104	PQL	mg/Kg	J (all detects)
SL-022-SA8S-SS-0.0-0.5	MERCURY	J	0.0281	0.101	PQL	mg/Kg	J (all detects)
SL-023-SA8S-SS-0.0-0.5	MERCURY	J	0.0248	0.105	PQL	mg/Kg	J (all detects)
SL-113-SA7-SB-0.0-1.0	MERCURY	J	0.0667	0.112	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA7-SB-4.0-5.0	EFH (C15-C20)	J	0.54	1.3	PQL	mg/Kg	J (all detects)
SL-132-SA7-SB-8.5-9.5	EFH (C15-C20)	J	0.48	1.3	PQL	mg/Kg	J (all detects)
SL-180-SA7-SB-2.0-3.0	EFH (C15-C20)	J	0.56	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA8S-SS-0.0-0.5	Chlordane	J	2.3	3.6	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.040	0.18	PQL	ug/Kg	
	TOXAPHENE	J	4.7	7.0	PQL	ug/Kg	
SL-010-SA8S-SS-0.0-0.5	4,4'-DDT	J	3.2	3.6	PQL	ug/Kg	J (all detects)
SL-012-SA8S-SS-0.0-0.5	Chlordane	J	1.6	3.6	PQL	ug/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	Chlordane	J	1.3	3.5	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	0.33	0.35	PQL	ug/Kg	
	ENDOSULFAN I	J	0.12	0.17	PQL	ug/Kg	
	HEPTACHLOR EPOXIDE	J	0.11	0.17	PQL	ug/Kg	
SL-017-SA8S-SS-0.0-0.5	Chlordane	J	1.2	3.7	PQL	ug/Kg	J (all detects)
SL-019-SA8S-SS-0.0-0.5	Chlordane	J	2.7	3.5	PQL	ug/Kg	J (all detects)
SL-023-SA8S-SS-0.0-0.5	4,4'-DDT	J	3.0	3.6	PQL	ug/Kg	J (all detects)
	HEPTACHLOR EPOXIDE	J	0.40	1.8	PQL	ug/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	Aroclor 5460	J	3.2	3.5	PQL	ug/Kg	J (all detects)
SL-012-SA8S-SS-0.0-0.5	Aroclor 5460	J	2.4	3.5	PQL	ug/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	AROCLOR 1248	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.4	3.4	PQL	ug/Kg	
SL-017-SA8S-SS-0.0-0.5	AROCLOR 1248	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.3	3.6	PQL	ug/Kg	
SL-020-SA8S-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.4	3.5	PQL	ug/Kg	
SL-022-SA8S-SS-0.0-0.5	AROCLOR 1254	J	1.3	1.8	PQL	ug/Kg	J (all detects)
SL-084-SA7-SB-0.0-1.0	AROCLOR 1254	J	0.65	1.8	PQL	ug/Kg	J (all detects)
SL-132-SA7-SB-4.0-5.0	AROCLOR 1254	J	0.66	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	MCPP	J	190	270	PQL	ug/Kg	J (all detects)
SL-009-SA8S-SS-0.0-0.5	MCPP	J	110	260	PQL	ug/Kg	J (all detects)
SL-012-SA8S-SS-0.0-0.5	2,4-DB	J	1.4	1.8	PQL	ug/Kg	J (all detects)
SL-017-SA8S-SS-0.0-0.5	DICAMBA	J	0.45	1.3	PQL	ug/Kg	J (all detects)
SL-019-SA8S-SS-0.0-0.5	DICAMBA	J	0.61	1.2	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA8S-SS-0.0-0.5	FLUORANTHENE	J	19	180	PQL	ug/Kg	J (all detects)
SL-012-SA8S-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	BENZYL ALCOHOL	J	230	520	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	36	350	PQL	ug/Kg	
	PHENOL	J	30	170	PQL	ug/Kg	
SL-017-SA8S-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	360	PQL	ug/Kg	J (all detects)
SL-018-SA8S-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	340	PQL	ug/Kg	J (all detects)
SL-020-SA8S-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	360	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	0.48	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.80	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	19	PQL	ug/Kg	
	FLUORENE	J	0.84	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.8	PQL	ug/Kg	
SL-009-SA8S-SS-0.0-0.5	BENZO(A)PYRENE	J	0.75	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.93	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.4	19	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.92	1.8	PQL	ug/Kg	
	PYRENE	J	1.4	1.8	PQL	ug/Kg	
SL-010-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	0.37	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.97	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.95	1.8	PQL	ug/Kg	
SL-011-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.56	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.93	1.8	PQL	ug/Kg	
SL-012-SA8S-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.97	1.8	PQL	ug/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.6	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.0	19	PQL	ug/Kg	
	PHENANTHRENE	J	0.73	1.7	PQL	ug/Kg	
	PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-017-SA8S-SS-0.0-0.5	CHRYSENE	J	0.46	1.8	PQL	ug/Kg	J (all detects)
SL-018-SA8S-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.99	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.95	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.75	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.88	1.7	PQL	ug/Kg	
	PYRENE	J	0.91	1.7	PQL	ug/Kg	
SL-019-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	0.52	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.84	1.7	PQL	ug/Kg	
	FLUORENE	J	1.1	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.81	1.7	PQL	ug/Kg	
	PYRENE	J	1.3	1.7	PQL	ug/Kg	
SL-020-SA8S-SS-0.0-0.5	BENZO(A)PYRENE	J	0.75	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	FLUORENE	J	0.74	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.79	1.8	PQL	ug/Kg	
SL-021-SA8S-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.84	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	1.8	PQL	ug/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE259

Laboratory: LL

EDD Filename: DE259_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA8S-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	19	PQL	ug/Kg	
	CHRYSENE	J	0.51	1.8	PQL	ug/Kg	
SL-023-SA8S-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
SL-132-SA7-SB-4.0-5.0	BENZO(A)PYRENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.6	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.79	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.72	1.7	PQL	ug/Kg	

LDC #: 26864C4
 SDG #: DE259
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 ADR

Date: 1/4/12
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	in good by Lab/ADR
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	Al, Ba, Ca, Fe, Pb, Mg, Mn, K, Ti, V, Zn 7x
VII.	Duplicate Sample Analysis	SW	Sb < 5% (Ca J/W)
VIII.	Laboratory Control Samples (LCS)	SW	SRM Ti, U/J (# only)
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Cu, Pb, Ni, V, Zn, U/J
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: 401

1	SL-008-SA8S-SS-0.0-0.5	11	SL-021-SA8S-SS-0.0-0.5	21	#/MS	31
2	SL-009-SA8S-SS-0.0-0.5	12	SL-022-SA8S-SS-0.0-0.5	22	MSD	32
3	SL-010-SA8S-SS-0.0-0.5	13	SL-023-SA8S-SS-0.0-0.5	23	dup	33
4	SL-011-SA8S-SS-0.0-0.5	14	SL-084-SA7-SB-0.0-1.0	24	#2 MS (Ti)	34
5	SL-012-SA8S-SS-0.0-0.5	15	SL-113-SA7-SB-0.0-1.0	25	MSD	35
6	SL-016-SA8S-SS-0.0-0.5	16	SL-115-SA7-SB-0.5-1.5	26	MSD	36
7	SL-017-SA8S-SS-0.0-0.5	17	SL-132-SA7-SB-4.0-5.0	27		37
8	SL-018-SA8S-SS-0.0-0.5	18	SL-132-SA7-SB-8.5-9.5	28		38
9	SL-019-SA8S-SS-0.0-0.5	19	SL-180-SA7-SB-2.0-3.0	29		39
10	SL-020-SA8S-SS-0.0-0.5	20		30		40

Notes: _____

LDC #: 26864C4

VALIDATION FINDINGS WORKSHEET

PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: Hg: 167X

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: All

Reason: B

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	2	8	9	10						
Hg			0.021	0.0175	0.015	0.012	0.0098	0.016						

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE259
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6426110BKG Matrix Spike Lab Sample ID: 6426110MS Matrix Spike Duplicate Lab Sample ID: 6426110MSD
 % Solids for Sample: 93.3
 Batch Id(s): P27908C, P27926A, P27811C

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C			Result	Q	%R	Q	%R	RPD
Aluminum	121	23128.2251		30702.5111		30150.6914		204.1545	MG/KG	3710	3341	2	74X	20P	
Antimony	75	0.1923	B	0.4594		0.4417		1.2610	MG/KG	21 N	20 N	4	75 - 125	20MS	
Arsenic	137	6.5525		9.6232		8.3230		2.1016	MG/KG	146 N	86	14	75 - 125	20MS	
Barium	9	96.2775		115.5034		103.8420		10.5080	MG/KG	183	73	11	74X	20MS	
Beryllium		0.6754		1.4776		1.2674		0.8406	MG/KG	95	72 N	15	75 - 125	20MS	
Boron		12.1768		214.9982		222.8254		204.1545	MG/KG	99	100	4	84 - 115	20P	
Cadmium	111	0.2947		1.4968		1.3253		1.0508	MG/KG	114	100	12	75 - 125	20MS	
Calcium		84189.0247		69750.8345		67244.0788		408.3091	MG/KG	-3536	-4031	4	74X	20P	
Chromium	52	28.8771		42.7674		40.1517		10.5080	MG/KG	132 N	109	6	75 - 125	20MS	
Cobalt	59	10.5924		69.2895		61.6704		52.5398	MG/KG	112	99	12	75 - 125	20MS	
Copper	63	21.0034		33.5414		31.0619		10.5080	MG/KG	119	98	8	75 - 125	20MS	
Iron		27048.7128		29175.7720		27919.5049		102.0773	MG/KG	2084	829	4	74X	20P	
Lead	208	21.9103		29.5484		25.9708		3.1524	MG/KG	242	131	13	82 - 114	20MS	
Lithium		20.9775		126.4064		129.0534		102.0773	MG/KG	103	103	2	74X	20P	
Magnesium		7574.0922		8780.3522		8564.4054		204.1545	MG/KG	591	471	2	74X	20P	
Manganese		385.5552		387.1403		394.9804		51.0386	MG/KG	3	18	2	74X	20P	
Mercury		0.0414	B	0.2191		0.2114		0.1739	MG/KG	102	97	4	65 - 135	20CV	
Molybdenum	98	0.4403		11.1258		9.9823		10.5080	MG/KG	102	93	11	75 - 125	20MS	
Nickel	60	19.9357		33.0790		29.1244		10.5080	MG/KG	125	89	13	75 - 125	20MS	
Phosphorus		588.4523		674.2214		695.7096		102.0773	MG/KG	84	102	3	74X	20P	
Potassium		5655.4212		7548.3213		7821.5234		1020.7727	MG/KG	185	206	4	74X	20P	
Selenium	78	0.2680	B	2.3790		2.1848		2.1016	MG/KG	100	93	9	75 - 125	20MS	
Silver	107	0.0303	B	11.2729		10.1760		10.5080	MG/KG	107	98	10	75 - 125	20MS	
Sodium		108.0204		1083.5206		1116.8243		1020.7727	MG/KG	96	96	3	75 - 125	20P	
Strontium		108.3258		193.3803		188.6367		102.0773	MG/KG	83	76	2	75 - 115	20P	
Thallium	203	0.3387		0.8268		0.7264		0.4203	MG/KG	116	94	13	75 - 125	20MS	
Tin		2.2840	B	321.4566		334.6111		408.3091	MG/KG	78 N	79 N	4	80 - 110	20P	
Titanium		1015.7213		1399.2844		1414.0281		102.0773	MG/KG	376	379	1	74X	20P	
Vanadium	51	52.9104		71.6432		67.0088		10.5080	MG/KG	178	137	7	74X	20MS	
Zinc	66	70.8838		85.8710		78.6957		10.5080	MG/KG	143	76	9	74X	20MS	
Zirconium	40	4.1243	B	90.9825		92.5078		102.0773	MG/KG	85	84	2	81 - 110	20P	

METHODS: MS
 P = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence
 CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS

St post spike = 977



QUALITY ASSURANCE SUMMARY

FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE259
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6426111BKG Matrix Spike Lab Sample ID: 6426111MS Matrix Spike Duplicate Lab Sample ID: 6426111MSD
 % Solids for Sample: 94.7
 Batch Id(s): P29108A

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit		
		Result	C	Result	C	Result	C				%R	Q	%R	Q	%R	RPD	M
Titanium		870.1669		1224.4848		1257.5016		104.5511	105.5966	MG/KG	339		367		3	7	20p

METHODS: 49
 P = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:

U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE264

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Oct-2011	TB-100711	6432182	TB	3520C	1625C	III
07-Oct-2011	TB-100711	6432183	TB	3546	1625C	III
07-Oct-2011	TB-100711	6432184	TB	5030B	8015M	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3050B	6010B	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3050B	6020	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3060A	7199	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3550B	8015B	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3550B	8015M	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3550B	8082	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3550B	8270C	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3550B	8270C SIM	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	5035	8015M	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	300.0	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	314.0	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	7471A	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	8015B	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	8015M	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	9012B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3050B	6010B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3050B	6020	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3060A	7199	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3546	1625C	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3550B	8015B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3550B	8015M	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3550B	8082	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3550B	8270C SIM	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	5035	8015M	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	8330	8330A	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	300.0	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	314.0	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	7471A	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	8015B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	8015M	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	8315A	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	9012B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5DUP	P432178D270646B	DUP	METHOD	314.0	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5DUP	P432178D270923B	DUP	METHOD	300.0	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5MSD	P432178M262029	MSD	3546	1625C	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5MS	P432178R262010	MS	3546	1625C	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5MS	P432178R270732B	MS	METHOD	314.0	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5MS	P432178R270935B	MS	METHOD	300.0	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3050B	6010B	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3050B	6020	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3060A	7199	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3550B	8015B	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3550B	8015M	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3550B	8082	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3550B	8270C	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3550B	8270C SIM	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	5035	8015M	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	314.0	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	7471A	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	8015B	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	8015M	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	9012B	III
07-Oct-2011	EB-SA7-SB-100711	6432181	EB	3520C	1625C	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6010B			Matrix: SO						

Sample ID: SL-046-SA7-SB-2.5-3.5 Collected: 10/7/2011 11:15:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18400		2.69	MDL	20.6	PQL	mg/Kg	J	E

Sample ID: SL-046-SA7-SB-2.5-3.5 Collected: 10/7/2011 11:15:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11700		6.22	MDL	20.6	PQL	mg/Kg	J	E

Sample ID: SL-046-SA7-SB-2.5-3.5 Collected: 10/7/2011 11:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	285		0.0370	MDL	0.514	PQL	mg/Kg	J	E
PHOSPHORUS	350		0.360	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	2930		11.6	MDL	51.4	PQL	mg/Kg	J	Q
SODIUM	73.1	J	6.12	MDL	103	PQL	mg/Kg	J	Z
STRONTIUM	11.6		0.0257	MDL	0.514	PQL	mg/Kg	J	E
TIN	2.37	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.45	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18600		2.68	MDL	20.5	PQL	mg/Kg	J	E

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12200		6.26	MDL	20.7	PQL	mg/Kg	J	E

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	271		0.0373	MDL	0.518	PQL	mg/Kg	J	E
PHOSPHORUS	365		0.362	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	3040		11.7	MDL	51.8	PQL	mg/Kg	J	Q
SODIUM	69.5	J	6.16	MDL	104	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6010B	Matrix:			SO					

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	12.8		0.0259	MDL	0.518	PQL	mg/Kg	J	E
TIN	2.36	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.48	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	17800		3.04	MDL	23.3	PQL	mg/Kg	J	E

Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12200		6.97	MDL	23.0	PQL	mg/Kg	J	E

Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	296		0.0427	MDL	0.593	PQL	mg/Kg	J	E
PHOSPHORUS	423		0.415	MDL	11.9	PQL	mg/Kg	J	Q
POTASSIUM	3180		13.4	MDL	59.3	PQL	mg/Kg	J	Q
SODIUM	82.0	J	7.06	MDL	119	PQL	mg/Kg	J	Z
STRONTIUM	14.7		0.0297	MDL	0.593	PQL	mg/Kg	J	E
TIN	2.85	J	0.380	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	1.74	J	0.546	MDL	5.93	PQL	mg/Kg	J	Z

Method Category:	METALS									
Method:	6020	Matrix:			SO					

Sample ID: SL-046-SA7-SB-2.5-3.5 Collected: 10/7/2011 11:15:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0892	J	0.0585	MDL	0.404	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-046-SA7-SB-2.5-3.5 Collected: 10/7/2011 11:15:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.528		0.0504	MDL	0.101	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-046-SA7-SB-2.5-3.5 Collected: 10/7/2011 11:15:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.107	MDL	0.404	PQL	mg/Kg	J	E, E, A

Sample ID: SL-046-SA7-SB-2.5-3.5 Collected: 10/7/2011 11:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0747	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	5.79		0.0807	MDL	0.404	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.581		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.112		0.0444	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	19.2		0.121	MDL	0.404	PQL	mg/Kg	J	Q, E, E, A
COBALT	7.36		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	9.21		0.0807	MDL	0.404	PQL	mg/Kg	J	Q, E, E
LEAD	5.26		0.0103	MDL	0.202	PQL	mg/Kg	J	Q, E, E
NICKEL	14.0		0.101	MDL	0.404	PQL	mg/Kg	J	Q, E, E
SILVER	0.0320	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.324		0.0303	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	39.9		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, E, E, A
ZINC	78.9		0.565	MDL	3.03	PQL	mg/Kg	J	E, E

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0953	J	0.0618	MDL	0.426	PQL	mg/Kg	J	Z, Q

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.469		0.0533	MDL	0.107	PQL	mg/Kg	J	Q, E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	126		0.113	MDL	0.426	PQL	mg/Kg	J	E, E, A

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.252		0.0789	MDL	0.213	PQL	mg/Kg	J	Q
ARSENIC	5.01		0.0853	MDL	0.426	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.610		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.230		0.0469	MDL	0.107	PQL	mg/Kg	J	Q, E
CHROMIUM	20.6		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E, E, A
COBALT	6.87		0.0213	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	10.6		0.0853	MDL	0.426	PQL	mg/Kg	J	Q, E, E
LEAD	9.96		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, E, E
NICKEL	13.4		0.107	MDL	0.426	PQL	mg/Kg	J	Q, E, E
SILVER	0.0343	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.325		0.0320	MDL	0.107	PQL	mg/Kg	J	Q, E
VANADIUM	39.2		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, E, E, A
ZINC	99.1		0.597	MDL	3.20	PQL	mg/Kg	J	E, E

Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0978	J	0.0662	MDL	0.456	PQL	mg/Kg	J	Z, Q

Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.610		0.0570	MDL	0.114	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.121	MDL	0.456	PQL	mg/Kg	J	E, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.386		0.0844	MDL	0.228	PQL	mg/Kg	J	Q
ARSENIC	5.71		0.0912	MDL	0.456	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.671		0.0182	MDL	0.114	PQL	mg/Kg	J	Q, E
CADMIUM	0.271		0.0502	MDL	0.114	PQL	mg/Kg	J	Q, E
CHROMIUM	23.7		0.137	MDL	0.456	PQL	mg/Kg	J	Q, E, E, A
COBALT	7.48		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E
COPPER	12.0		0.0912	MDL	0.456	PQL	mg/Kg	J	Q, E, E
LEAD	12.1		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E, E
NICKEL	14.8		0.114	MDL	0.456	PQL	mg/Kg	J	Q, E, E
SILVER	0.0403	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.382		0.0342	MDL	0.114	PQL	mg/Kg	J	Q, E
VANADIUM	44.2		0.0251	MDL	0.114	PQL	mg/Kg	J	Q, E, E, A
ZINC	117		0.639	MDL	3.42	PQL	mg/Kg	J	E, E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0104	J	0.0073	MDL	0.104	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0084	J	0.0082	MDL	0.117	PQL	mg/Kg	U	B

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA7-SB-100711 Collected: 10/7/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.589	J	0.475	MDL	0.951	PQL	ng/L	J	Z, S

Method Category:	SVOA	
Method:	1625C	Matrix: SO

Sample ID: SL-046-SA7-SB-2.5-3.5 Collected: 10/7/2011 11:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	23.2	J	17.3	MDL	34.6	PQL	ng/Kg	J	Z, S

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: REA Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	3.7	J	2.1	MDL	6.4	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	140	J	18	MDL	360	PQL	ug/Kg	J	Z
Di-n-butylphthalate	64	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8270C	Matrix:	SO
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Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	22	J	20	MDL	400	PQL	ug/Kg	J	Z

Method Category:	SVOA	Method:	8270C SIM	Matrix:	SO
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Sample ID: SL-046-SA7-SB-2.5-3.5 Collected: 10/7/2011 11:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	6.3	MDL	19	PQL	ug/Kg	U	B

Sample ID: SL-137-SA7-SB-0.0-1.0 Collected: 10/7/2011 11:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.72	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-138-SA7-SB-1.5-2.5 Collected: 10/7/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.0	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/12/2012 8:06:49 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/12/2012 8:06:49 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/12/2012 8:06:49 AM

ADR version 1.4.0.111

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE264

Method Blank Outlier Report

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28308AB220247	10/19/2011 2:47:00 AM	CALCIUM MANGANESE PHOSPHORUS STRONTIUM TIN	8.18 mg/Kg 0.0400 mg/Kg 1.24 mg/Kg 0.0440 mg/Kg 1.46 mg/Kg	SL-046-SA7-SB-2.5-3.5 SL-137-SA7-SB-0.0-1.0 SL-138-SA7-SB-1.5-2.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-046-SA7-SB-2.5-3.5(RES)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-137-SA7-SB-0.0-1.0(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-138-SA7-SB-1.5-2.5(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB28B261854	10/14/2011 6:54:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	SL-046-SA7-SB-2.5-3.5 SL-137-SA7-SB-0.0-1.0 SL-138-SA7-SB-1.5-2.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-046-SA7-SB-2.5-3.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.1 ug/Kg	19U ug/Kg

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28326AQ220839A (SL-046-SA7-SB-2.5-3.5 SL-137-SA7-SB-0.0-1.0 SL-138-SA7-SB-1.5-2.5)	ANTIMONY	132	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-100711	N-Nitrosodimethylamine-d6	258	50.00-150.00	All Target Analytes	J (all detects)

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-046-SA7-SB-2.5-3.5	N-Nitrosodimethylamine-d6	189	50.00-150.00	All Target Analytes	J(all detects)
TB-100711	N-Nitrosodimethylamine-d6	159	50.00-150.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-137-SA7-SB-0.0-1.0	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-100711	N-NITROSODIMETHYLAMINE	J	0.589	0.951	PQL	ng/L	J (all detects)

Method: 1625C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SB-2.5-3.5	N-NITROSODIMETHYLAMINE	J	23.2	34.6	PQL	ng/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SB-2.5-3.5	SODIUM	J	73.1	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.37	10.3	PQL	mg/Kg	
	Zirconium	J	1.45	5.14	PQL	mg/Kg	
SL-137-SA7-SB-0.0-1.0	SODIUM	J	69.5	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	10.4	PQL	mg/Kg	
	Zirconium	J	1.48	5.18	PQL	mg/Kg	
SL-138-SA7-SB-1.5-2.5	SODIUM	J	82.0	119	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	11.9	PQL	mg/Kg	
	Zirconium	J	1.74	5.93	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SB-2.5-3.5	ANTIMONY	J	0.124	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0892	0.404	PQL	mg/Kg	
	SILVER	J	0.0320	0.101	PQL	mg/Kg	
SL-137-SA7-SB-0.0-1.0	SELENIUM	J	0.0953	0.426	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0343	0.107	PQL	mg/Kg	
SL-138-SA7-SB-1.5-2.5	SELENIUM	J	0.0978	0.456	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0403	0.114	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.25	1.1	PQL	mg/Kg	J (all detects)
SL-138-SA7-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.66	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE264

Laboratory: LL

EDD Filename: DE264_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA7-SB-0.0-1.0	MERCURY	J	0.0104	0.104	PQL	mg/Kg	J (all detects)
SL-138-SA7-SB-1.5-2.5	MERCURY	J	0.0084	0.117	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA7-SB-0.0-1.0	EFH (C15-C20)	J	3.7	6.4	PQL	mg/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA7-SB-0.0-1.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	140	360	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	64	180	PQL	ug/Kg	
SL-138-SA7-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	400	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	19	PQL	ug/Kg	J (all detects)
SL-137-SA7-SB-0.0-1.0	BENZO(A)ANTHRACENE	J	0.72	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.89	1.8	PQL	ug/Kg	
SL-138-SA7-SB-1.5-2.5	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.1	2.0	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.0	2.0	PQL	ug/Kg	J (all detects)

LDC #: 26923B4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE264

ADR

Laboratory: Lancaster Laboratories

Date: 1/6/12

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	INERT 3
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A	SPM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, V, JLUJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SL-046-SA7-SB-2.5-3.5	11		21		31	
2	SL-137-SA7-SB-0.0-1.0	12		22		32	
3	SL-138-SA7-SB-1.5-2.5	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

**VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES**

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: mg/Kg

Soil preparation factor applied: 100X
Associated Samples: All

Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	2	3							
Hg			0.042	0.035	0.010	0.0084							

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE263
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6431133BKG Matrix Spike Lab Sample ID: 6431133MS Matrix Spike Duplicate Lab Sample ID: 6431133MSD
 & Solids for Sample: 93.8
 Batch Id(s): P29308D, P28308A, P28308A, P29208D, P28311A

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C			\$R	Q	\$R	Q	\$R	Q
Aluminum	121	7106.3324		9942.7798		9972.8424		209.0388	207.0093	MG/KG	1357	1385	0	70X	20P
Antimony	75	0.1600	B	1.1855		1.0279		1.2793	1.2667	MG/KG	80	69N	14	75 - 125	20MS
Arsenic	137	3.6268		8.6333		7.3782		2.1322	2.1111	MG/KG	235N	178N	16	75 - 125	20MS
Barium	9	50.5931		94.9041		73.7824		10.6610	10.5554	MG/KG	418	220	25*	74X	20MS
Beryllium	111	0.3765		1.8070		1.4026		0.8529	0.8444	MG/KG	168N	122	25*	75 - 125	20MS
Boron	111	0.3726	U	210.5290		198.8857		211.1085	205.0189	MG/KG	100	97	6	84 - 115	20P
Cadmium	52	0.1267		1.8505		1.4906		1.0661	1.0555	MG/KG	162N	129N	22*	75 - 125	20MS
Calcium	52	1618.7675		1980.9000		2096.5249		422.2171	410.0377	MG/KG	86	117	6	75 - 125	20P
Chromium	59	13.2320		40.7676		27.6130		10.6610	10.5554	MG/KG	258N	136N	38*	75 - 125	20MS
Cobalt	63	4.1526		88.1663		73.4024		53.3049	52.7771	MG/KG	158N	131N	18	75 - 125	20MS
Copper	208	6.1337		26.3113		20.2981		10.6610	10.5554	MG/KG	189N	134N	26*	75 - 125	20MS
Iron	208	17543.0799		14872.3983		14613.4255		102.5094	104.5194	MG/KG	-2605	-2803	2	74X	20P
Lead	208	8.5826		18.1343		14.4060		3.1983	3.1666	MG/KG	299N	184N	23*	75 - 125	20MS
Lithium	60	14.8716		123.5428		119.8592		105.5543	102.5094	MG/KG	103	102	3	82 - 114	20P
Magnesium	60	3472.5348		3400.6151		3298.8168		205.0189	209.0388	MG/KG	-35	-83	3	74X	20P
Manganese	78	245.7366		253.9741		279.6273		52.7771	51.2547	MG/KG	16	66	10	74X	20P
Mercury	98	0.0075	U	0.1741		0.1791		0.1690	0.1739	MG/KG	103	103	3	65 - 135	20CV
Molybdenum	60	0.3076		17.0874		13.1542		10.6610	10.5554	MG/KG	157N	122	26*	75 - 125	20MS
Nickel	60	8.5888		34.5416		23.4330		10.6610	10.5554	MG/KG	243N	141N	38*	75 - 125	20MS
Phosphorus	78	304.2830		379.9426		402.9225		105.5543	102.5094	MG/KG	72N	96	6	75 - 125	20P
Potassium	107	1916.5214		3344.9123		3424.7304		1055.5427	1025.0943	MG/KG	135N	147N	2	75 - 125	20P
Selenium	107	0.0739	B	3.1535		2.7676		2.1322	2.1111	MG/KG	144N	128N	13	75 - 125	20MS
Silver	107	0.0801	B	16.2090		12.9578		10.6610	10.5554	MG/KG	151N	122	22*	75 - 125	20MS
Sodium	203	98.9308	B	1126.3368		1054.6263		1055.5427	1025.0943	MG/KG	97	93	7	75 - 125	20P
Strontium	203	13.3428		116.0611		113.1181		105.5543	102.5094	MG/KG	97	97	3	75 - 115	20P
Thallium	203	0.1551		0.8991		0.6781		0.4264	0.4222	MG/KG	174N	124	28*	75 - 125	20MS
Tin	203	2.1343	B	397.2208		380.5437		422.2171	410.0377	MG/KG	94	92	4	80 - 110	20P
Titanium	51	642.1388		913.6144		916.5912		105.5543	102.5094	MG/KG	257	268	0	74X	20P
Vanadium	51	23.4128		50.7676		40.4273		10.6610	10.5554	MG/KG	257N	161N	23*	75 - 125	20MS
Zinc	66	51.6488		98.6567		74.6058		10.6610	10.5554	MG/KG	441	217	28*	74X	20MS
Zirconium	90	1.9759	B	109.8873		104.0184		105.5543	102.5094	MG/KG	102	100	5	81 - 110	20P

METHODS:
 P = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence
 CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE263

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6431133BKG

Duplicate Lab Sample ID: 6431133DUP

% Solids for Duplicate: 93.8

% Solids for Sample: 93.8

Batch ID(s): P29308D, P28326A, P28308A, P29208D, P28311A

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			7106.3324		8917.8674		23	*	P
Antimony	121	0.2	0.1600	B	0.2165		30		MS
Arsenic	75		3.6268		6.2972		54	*	MS
Barium	137		50.5931		78.6635		43	*	MS
Beryllium	9	0.1	0.3765		0.5092		30	*	MS
Boron			0.3726	U	0.3726	U			P
Cadmium	111	0.1	0.1267		0.2739		73	*	MS
Calcium			1618.7675		1718.8451		6		P
Chromium	52		13.2320		21.7153		49	*	MS
Cobalt	59		4.1526		11.1205		91	*	MS
Copper	63		6.1337		9.5038		43	*	MS
Iron			17543.0799		14062.8227		22	*	P
Lead	208		8.5826		12.9671		41	*	MS
Lithium			14.8716		16.9075		13		P
Magnesium			3472.5348		3099.4743		11		P
Manganese			245.7366		364.8995		39	*	P
Mercury			0.0075	U	0.0103	B	208		CV
Molybdenum	98	0.1	0.3076		0.6061		65	*	MS
Nickel	60		8.5888		14.4327		51	*	MS
Phosphorus			304.2830		348.1804		13		P
Potassium			1916.5214		2236.3291		15		P
Selenium	78		0.0739	B	0.0926	B	22		MS
Silver	107		0.0801	B	0.0759	B	5		MS
Sodium			98.9308	B	58.1593	B	52		P
Strontium			13.3428		10.1010		28	*	P
Thallium	203	0.1	0.1551		0.1878		19		MS
Tin			2.1343	B	2.1757	B	2		P
Titanium			642.1388		722.4719		12		P
Vanadium	51		23.4128		34.3635		38	*	MS
Zinc	66		51.6488		80.5680		44	*	MS
Zirconium			1.9759	B	1.5246	B	26		P

45X

45X

45X Difference

45X

45X

45X

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ). The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

Difference

$M = 0.2985 (\leq 0.208)$

DE263 5524

METHODS:

- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:

- U = Below MDL
 - B = Below LOQ
- FLAGS:
- * = Duplicate Out of Spec

SAMPLE DELIVERY GROUP

DE265

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Oct-2011	TB-101011	6433416	TB	3520C	1625C	III
10-Oct-2011	TB-101011	6433417	TB	3546	1625C	III
10-Oct-2011	TB-101011	6433418	TB	5030B	8015M	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3050B	6010B	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3050B	6020	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3060A	7199	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3546	1625C	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3550B	8015B	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3550B	8015M	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3550B	8082	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3550B	8270C	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3550B	8270C SIM	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	5035	8015M	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	300.0	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	314.0	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	7471A	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	8015B	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	8015M	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	8315A	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0MSD	P433414M241818A	MSD	METHOD	8315A	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0MS	P433414R241809A	MS	METHOD	8315A	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3050B	6010B	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3060A	7199	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3550B	8082	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3550B	8270C SIM	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	METHOD	300.0	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	METHOD	314.0	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	METHOD	7471A	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220134	DUP	3050B	6010B	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220826A	DUP	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220826B	DUP	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220826C	DUP	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220826D	DUP	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220849	DUP	METHOD	7471A	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D271955A	DUP	METHOD	300.0	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220143	MSD	3050B	6010B	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220832A	MSD	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220832B	MSD	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220832C	MSD	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220832D	MSD	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220852	MSD	METHOD	7471A	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220138	MS	3050B	6010B	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220829A	MS	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220829B	MS	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220829C	MS	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220829D	MS	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220850	MS	METHOD	7471A	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R272011A	MS	METHOD	300.0	III
10-Oct-2011	EB-SA7-SB-101011	6433415	EB	3520C	1625C	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3050B	6020	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3060A	7199	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3550B	8082	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3550B	8270C	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3550B	8270C SIM	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	METHOD	300.0	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	METHOD	314.0	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-112-SA7-SB-0.0-1.0 Collected: 10/10/2011 10:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-159-SA7-SB-3.0-4.0 Collected: 10/10/2011 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.86	U	0.86	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.84	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.5	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-112-SA7-SB-0.0-1.0 Collected: 10/10/2011 10:15:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	26900		2.81	MDL	21.6	PQL	mg/Kg	J	E
POTASSIUM	3810		12.2	MDL	53.9	PQL	mg/Kg	J	Q
TIN	3.31	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-112-SA7-SB-0.0-1.0 Collected: 10/10/2011 10:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.59	J	0.496	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA7-SB-3.0-4.0 Collected: 10/10/2011 2:15:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23500		2.73	MDL	20.9	PQL	mg/Kg	J	E
POTASSIUM	2110		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.97	J	0.335	MDL	10.5	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6010B								Matrix:	SO

Sample ID: SL-159-SA7-SB-3.0-4.0		Collected: 10/10/2011 2:15:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.11	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0		Collected: 10/10/2011 9:55:00			Analysis Type: REA			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.63	MDL	20.2	PQL	mg/Kg	J	E
POTASSIUM	3000		11.4	MDL	50.4	PQL	mg/Kg	J	Q
TIN	2.73	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-169-SA7-SB-3.0-4.0		Collected: 10/10/2011 9:55:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	73.6	J	6.00	MDL	101	PQL	mg/Kg	J	Z
Zirconium	1.96	J	0.464	MDL	5.04	PQL	mg/Kg	J	Z

Method Category:	METALS									
Method:	6020								Matrix:	SO

Sample ID: SL-112-SA7-SB-0.0-1.0		Collected: 10/10/2011 10:15:00			Analysis Type: REA2			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.58		0.0534	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-112-SA7-SB-0.0-1.0		Collected: 10/10/2011 10:15:00			Analysis Type: RES			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.422		0.0790	MDL	0.214	PQL	mg/Kg	J	Q
ARSENIC	14.8		0.0854	MDL	0.427	PQL	mg/Kg	J	E
COBALT	12.1		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	23.5		0.0854	MDL	0.427	PQL	mg/Kg	J	Q, E
NICKEL	24.5		0.107	MDL	0.427	PQL	mg/Kg	J	Q
SILVER	0.0955	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020	Matrix:		SO						

Sample ID: SL-159-SA7-SB-3.0-4.0 Collected: 10/10/2011 2:15:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.344	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA7-SB-3.0-4.0 Collected: 10/10/2011 2:15:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.21		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-159-SA7-SB-3.0-4.0 Collected: 10/10/2011 2:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.367		0.0759	MDL	0.205	PQL	mg/Kg	J	Q
ARSENIC	9.17		0.0820	MDL	0.410	PQL	mg/Kg	J	E
COBALT	10.2		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	18.7		0.0820	MDL	0.410	PQL	mg/Kg	J	Q, E
NICKEL	17.6		0.103	MDL	0.410	PQL	mg/Kg	J	Q
SILVER	0.0327	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.156	J	0.0603	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.591		0.0519	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.207	J	0.0769	MDL	0.208	PQL	mg/Kg	J	Z, Q
ARSENIC	4.94		0.0831	MDL	0.416	PQL	mg/Kg	J	E
COBALT	7.15		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	11.5		0.0831	MDL	0.416	PQL	mg/Kg	J	Q, E
NICKEL	14.9		0.104	MDL	0.416	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 Matrix: SO

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0365	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q

Method Category: METALS
Method: 7199 Matrix: SO

Sample ID: SL-112-SA7-SB-0.0-1.0 Collected: 10/10/2011 10:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA7-SB-3.0-4.0 Collected: 10/10/2011 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A Matrix: SO

Sample ID: SL-112-SA7-SB-0.0-1.0 Collected: 10/10/2011 10:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0258	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0125	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 1625C **Matrix: AQ**

Sample ID: EB-SA7-SB-101011 Collected: 10/10/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.948	J	0.509	MDL	1.02	PQL	ng/L	UJ	B, S, T

Sample ID: TB-101011 Collected: 10/10/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.34		0.510	MDL	1.02	PQL	ng/L	U	B

Method Category: SVOA
Method: 1625C **Matrix: SO**

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	20.1	J	17.3	MDL	34.5	PQL	ng/Kg	J	Z, S

Method Category: SVOA
Method: 8015M **Matrix: SO**

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: REA Dilution: 26.77

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.1	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 8082 **Matrix: SO**

Sample ID: SL-112-SA7-SB-0.0-1.0 Collected: 10/10/2011 10:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/24/2012 8:28:53 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8082
Matrix: SO

Sample ID: SL-112-SA7-SB-0.0-1.0 Collected: 10/10/2011 10:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.95	J	0.42	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA
Method: 8270C
Matrix: SO

Sample ID: SL-112-SA7-SB-0.0-1.0 Collected: 10/10/2011 10:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	32	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA
Method: 8270C SIM
Matrix: SO

Sample ID: SL-112-SA7-SB-0.0-1.0 Collected: 10/10/2011 10:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	43	J	33	MDL	98	PQL	ug/Kg	U	B
CHRYSENE	3.7	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z

Sample ID: SL-159-SA7-SB-3.0-4.0 Collected: 10/10/2011 2:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.3	MDL	19	PQL	ug/Kg	U	B

Sample ID: SL-169-SA7-SB-3.0-4.0 Collected: 10/10/2011 9:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	J	6.3	MDL	19	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.5	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/24/2012 8:28:53 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
B	Method Blank Contamination
E	Laboratory Duplicate Precision
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
T	Trip Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/24/2012 8:28:53 AM

ADR version 1.4.0.111

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE265

Method Blank Outlier Report

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH28B261523	10/17/2011 3:23:00 PM	N-NITROSODIMETHYLAMINE	1.14 ng/L	EB-SA7-SB-101011 TB-101011

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101011(RES)	N-NITROSODIMETHYLAMINE	0.948 ng/L	1.02U ng/L
TB-101011(RES)	N-NITROSODIMETHYLAMINE	1.34 ng/L	1.34U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28508AB220113	10/20/2011 1:13:00 AM	BORON PHOSPHORUS STRONTIUM	0.599 mg/Kg 1.39 mg/Kg 0.0750 mg/Kg	SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0
P28508AB220332	10/21/2011 3:32:00 AM	CALCIUM IRON MAGNESIUM TIN	13.1 mg/Kg 2.73 mg/Kg 0.891 mg/Kg 1.44 mg/Kg	SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-112-SA7-SB-0.0-1.0(REA)	TIN	3.31 mg/Kg	3.31U mg/Kg
SL-159-SA7-SB-3.0-4.0(REA)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-169-SA7-SB-3.0-4.0(REA)	TIN	2.73 mg/Kg	2.73U mg/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB28B261854	10/14/2011 6:54:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-112-SA7-SB-0.0-1.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	43 ug/Kg	98U ug/Kg
SL-159-SA7-SB-3.0-4.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.2 ug/Kg	19U ug/Kg
SL-169-SA7-SB-3.0-4.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	6.6 ug/Kg	19U ug/Kg

Trip Blank Outlier Report

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101011(RES)	10/10/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	1.34 ng/L	EB-SA7-SB-101011 SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101011(RES)	N-NITROSODIMETHYLAMINE	0.948 ng/L	1.02U ng/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	COBALT NICKEL SILVER	131 129 129	- - 129	75.00-125.00 75.00-125.00 75.00-125.00	- - -	COBALT NICKEL SILVER	J (all detects)
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	ARSENIC	-241	-213	75.00-125.00	-	ARSENIC	No Qual, >4x
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	ANTIMONY COPPER VANADIUM ZINC	38 - 44 63	33 71 34 69	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ANTIMONY COPPER VANADIUM ZINC	J(all detects) UJ(all non-detects) V, Zn, No Qual, >4x
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	BARIUM	246	61	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	ALUMINUM CALCIUM MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	575 127 172 141 - 261	1076 - 445 - 143 339	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	J(all detects) Al, Ca, Mg, P, Ti, No Qual, >4x
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	IRON	-29	1606	75.00-125.00	-	IRON	No Qual, >4x
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	MANGANESE	67	66	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA7-SB-0.0-1.0MS (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	FLUORIDE	79	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-112-SA7-SB-0.0-1.0DUP (SL-112-SA7-SB-0.0-1.0 SL -159-SA7-SB-3.0-4.0 SL -169-SA7-SB-3.0-4.0)	IRON	21	20.00	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-112-SA7-SB-0.0-1.0DUP (SL-112-SA7-SB-0.0-1.0 SL -159-SA7-SB-3.0-4.0 SL -169-SA7-SB-3.0-4.0)	ANTIMONY ARSENIC CADMIUM COBALT COPPER MOLYBDENUM SELENIUM	49 65 35 25 26 58 32	20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Cd, Se, No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-112-SA7-SB-0.0-1.0DUP (SL-112-SA7-SB-0.0-1.0 SL -159-SA7-SB-3.0-4.0 SL -169-SA7-SB-3.0-4.0)	MERCURY	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28526AQ220817A (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	ANTIMONY	139	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

<i>Sample ID</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
EB-SA7-SB-101011	N-Nitrosodimethylamine-d6	296	50.00-150.00	All Target Analytes	J (all detects)

Method: 1625C
Matrix: SO

<i>Sample ID</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
SL-169-SA7-SB-3.0-4.0	N-Nitrosodimethylamine-d6	154	50.00-150.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101011	N-NITROSODIMETHYLAMINE	J	0.948	1.02	PQL	ng/L	J (all detects)

Method: 1625C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-169-SA7-SB-3.0-4.0	N-NITROSODIMETHYLAMINE	J	20.1	34.5	PQL	ng/Kg	J (all detects)

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-169-SA7-SB-3.0-4.0	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	TIN	J	3.31	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.59	5.39	PQL	mg/Kg	
SL-159-SA7-SB-3.0-4.0	TIN	J	2.97	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.11	5.23	PQL	mg/Kg	
SL-169-SA7-SB-3.0-4.0	SODIUM	J	73.6	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	10.1	PQL	mg/Kg	
	Zirconium	J	1.96	5.04	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	SILVER	J	0.0955	0.107	PQL	mg/Kg	J (all detects)
SL-159-SA7-SB-3.0-4.0	SELENIUM	J	0.344	0.410	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0327	0.103	PQL	mg/Kg	
SL-169-SA7-SB-3.0-4.0	ANTIMONY	J	0.207	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.156	0.416	PQL	mg/Kg	
	SILVER	J	0.0365	0.104	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.29	1.1	PQL	mg/Kg	J (all detects)
SL-159-SA7-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.32	1.0	PQL	mg/Kg	J (all detects)
SL-169-SA7-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.22	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	MERCURY	J	0.0258	0.105	PQL	mg/Kg	J (all detects)
SL-169-SA7-SB-3.0-4.0	MERCURY	J	0.0125	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-169-SA7-SB-3.0-4.0	EFH (C15-C20)	J	1.1	1.3	PQL	mg/Kg	J (all detects)
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.2	1.1	PQL	mg/Kg	

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	AROCLOR 1254	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.95	1.9	PQL	ug/Kg	

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	Butylbenzylphthalate	J	32	180	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	43	98	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	3.7	9.1	PQL	ug/Kg	
SL-159-SA7-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	19	PQL	ug/Kg	J (all detects)
SL-169-SA7-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.6	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	7.5	19	PQL	ug/Kg	

LDC #: 26979B4
 SDG #: DE265
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 ADR

Date: 1-20-12
 Page: 1 of 1
 Reviewer: CR
 2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	No quals
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (Al, As, Ba, Ca, Fe, Mg, Mn, P, Ti, V, Zn > 4x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Cd, Hg, Se < 5xRL: No qual)
VIII.	Laboratory Control Samples (LCS)	MA	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: Soil

1	SL-112-SA7-SB-0.0-1.0	11		21		31	
2	SL-159-SA4-SB-3.0-4.0	12		22		32	
3	SL-169-SA7-SB-3.0-4.0	13		23		33	
4	(MS) MS	14		24		34	
5	MSD	15		25		35	
6	Dup	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE266

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	TB-101111	6434478	TB	3520C	1625C	III
11-Oct-2011	TB-101111	6434479	TB	3546	1625C	III
11-Oct-2011	TB-101111	6434480	TB	5030B	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3050B	6010B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3050B	6020	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3060A	7199	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3546	1625C	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8082	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8270C	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8270C SIM	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	5035	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	8330	8330A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	300.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	7471A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8315A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	9012B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0DUP	P434468D270158A	DUP	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MSD	P434468M322139A	MSD	METHOD	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MS	P434468R270221A	MS	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MS	P434468R322123A	MS	METHOD	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3050B	6020	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3060A	7199	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3546	1625C	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8082	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8270C	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8270C SIM	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	5035	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	8330	8330A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	300.0	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	314.0	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	7471A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8315A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	9012B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3050B	6010B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3050B	6020	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3060A	7199	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3546	1625C	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8015B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8082	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8270C	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	5035	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	8330	8330A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	300.0	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	314.0	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	7471A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8015B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8315A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	9012B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3050B	6010B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3050B	6020	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3060A	7199	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3546	1625C	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8015B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8015M	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8082	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8270C	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8270C SIM	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	8330	8330A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	300.0	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	314.0	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	7471A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8015B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8015M	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8315A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	9012B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3050B	6010B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3050B	6020	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3060A	7199	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8015B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8082	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8270C	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8270C SIM	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	5035	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	300.0	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	314.0	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	7471A	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	8015B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	9012B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3050B	6010B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3050B	6020	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3060A	7199	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3546	1625C	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8015B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8082	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8270C	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8270C SIM	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	5035	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	8330	8330A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	300.0	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	314.0	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	7471A	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8015B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8315A	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	9012B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5MSD	P434470M320200A	MSD	METHOD	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5MS	P434470R320147A	MS	METHOD	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3050B	6010B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3050B	6020	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3060A	7199	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3546	1625C	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8015B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8082	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8270C	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8270C SIM	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	5035	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	8330	8330A	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	300.0	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	314.0	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	7471A	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8015B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8315A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	9012B	III
11-Oct-2011	EB-SA7-SB-101111	6434477	EB	3520C	1625C	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3050B	6010B	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3050B	6020	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3060A	7199	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8082	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8270C	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8270C SIM	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	300.0	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	314.0	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	7471A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3050B	6010B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3050B	6020	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3060A	7199	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3546	1625C	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8015B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8082	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8270C	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8270C SIM	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	5035	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	8330	8330A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	300.0	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	314.0	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	7471A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8315A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	9012B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0DUP	P434472D272036B	DUP	METHOD	9012B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0MS	P434472R272037B	MS	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-049-SA7-SB-4.0-5.0 Collected: 10/11/2011 3:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.92	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 Collected: 10/11/2011 12:32:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.3	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 Collected: 10/11/2011 11:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.95	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 Collected: 10/11/2011 10:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.95	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 Collected: 10/11/2011 9:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 Collected: 10/11/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.83	MDL	1.5	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-009-SA3-SB-4.0-5.0 Collected: 10/11/2011 3:05:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19800		2.80	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	2920		12.1	MDL	53.6	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6010B	Matrix:	SO
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Sample ID: SL-009-SA3-SB-4.0-5.0 Collected: 10/11/2011 3:05:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	4.24	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-009-SA3-SB-4.0-5.0 Collected: 10/11/2011 3:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.82	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 Collected: 10/11/2011 3:25:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20000		2.61	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	2670		11.3	MDL	50.0	PQL	mg/Kg	J	Q
TIN	2.80	J	0.320	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-049-SA7-SB-4.0-5.0 Collected: 10/11/2011 3:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	77.8	J	5.95	MDL	100	PQL	mg/Kg	J	Z
Zirconium	1.83	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 Collected: 10/11/2011 11:22:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18500		2.70	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	2180		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	2.81	J	0.332	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-147-SA7-SB-1.0-2.0 Collected: 10/11/2011 11:22:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	69.6	J	6.17	MDL	104	PQL	mg/Kg	J	Z
Zirconium	1.56	J	0.477	MDL	5.18	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/12/2012 9:08:57 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-155-SA7-SB-1.5-2.5 Collected: 10/11/2011 12:32:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23200		2.61	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	3360		11.3	MDL	50.1	PQL	mg/Kg	J	Q
TIN	2.87	J	0.321	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-155-SA7-SB-1.5-2.5 Collected: 10/11/2011 12:32:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	82.9	J	5.96	MDL	100	PQL	mg/Kg	J	Z
Zirconium	1.85	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 Collected: 10/11/2011 11:15:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.73	MDL	20.9	PQL	mg/Kg	J	E
POTASSIUM	3120		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.93	J	0.335	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-162-SA7-SB-0.0-1.0 Collected: 10/11/2011 11:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.3	J	6.23	MDL	105	PQL	mg/Kg	J	Z
Zirconium	1.88	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 Collected: 10/11/2011 10:40:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19400		2.70	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3040		11.7	MDL	51.7	PQL	mg/Kg	J	Q
TIN	2.86	J	0.331	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-166-SA7-SB-1.0-2.0 Collected: 10/11/2011 10:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	72.2	J	6.16	MDL	103	PQL	mg/Kg	J	Z
Zirconium	1.89	J	0.476	MDL	5.17	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-167-SA7-SB-0.5-1.5 Collected: 10/11/2011 9:25:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19900		2.69	MDL	20.6	PQL	mg/Kg	J	E
POTASSIUM	2990		11.7	MDL	51.6	PQL	mg/Kg	J	Q
TIN	2.95	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-167-SA7-SB-0.5-1.5 Collected: 10/11/2011 9:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.9	J	6.14	MDL	103	PQL	mg/Kg	J	Z
Zirconium	1.89	J	0.475	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 Collected: 10/11/2011 1:45:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.64	MDL	20.2	PQL	mg/Kg	J	E
POTASSIUM	2930		11.4	MDL	50.5	PQL	mg/Kg	J	Q
TIN	2.82	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-168-SA7-SB-0.5-1.5 Collected: 10/11/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	63.1	J	6.01	MDL	101	PQL	mg/Kg	J	Z
Zirconium	1.85	J	0.465	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 Collected: 10/11/2011 8:47:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20900		2.80	MDL	21.4	PQL	mg/Kg	J	E
POTASSIUM	2260		12.1	MDL	53.6	PQL	mg/Kg	J	Q
TIN	3.02	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-265-SA6-SB-4.0-5.0 Collected: 10/11/2011 8:47:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.90	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-009-SA3-SB-4.0-5.0 Collected: 10/11/2011 3:05:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.100	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA3-SB-4.0-5.0 Collected: 10/11/2011 3:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.932		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-009-SA3-SB-4.0-5.0 Collected: 10/11/2011 3:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.298		0.0794	MDL	0.215	PQL	mg/Kg	J	Q
ARSENIC	9.87		0.0858	MDL	0.429	PQL	mg/Kg	J	E
COBALT	6.33		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	42.8		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	23.9		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.217		0.0152	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-049-SA7-SB-4.0-5.0 Collected: 10/11/2011 3:25:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 Collected: 10/11/2011 3:25:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.432		0.0515	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-049-SA7-SB-4.0-5.0 Collected: 10/11/2011 3:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.77		0.0824	MDL	0.412	PQL	mg/Kg	J	E
COBALT	6.87		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.41		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
NICKEL	14.2		0.103	MDL	0.412	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-049-SA7-SB-4.0-5.0 Collected: 10/11/2011 3:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0173	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-147-SA7-SB-1.0-2.0 Collected: 10/11/2011 11:22:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 Collected: 10/11/2011 11:22:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.286		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-147-SA7-SB-1.0-2.0 Collected: 10/11/2011 11:22:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.03		0.0821	MDL	0.410	PQL	mg/Kg	J	E
COBALT	5.87		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	5.78		0.0821	MDL	0.410	PQL	mg/Kg	J	Q, E
NICKEL	7.57		0.103	MDL	0.410	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA7-SB-1.5-2.5 Collected: 10/11/2011 12:32:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.216	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 Collected: 10/11/2011 12:32:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.728		0.0501	MDL	0.100	PQL	mg/Kg	J	E

Sample ID: SL-155-SA7-SB-1.5-2.5 Collected: 10/11/2011 12:32:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.146	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	5.28		0.0801	MDL	0.401	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6020	Matrix:	SO						

Sample ID: SL-155-SA7-SB-1.5-2.5 Collected: 10/11/2011 12:32:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.38		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E
COPPER	10.7		0.0801	MDL	0.401	PQL	mg/Kg	J	Q, E
NICKEL	19.8		0.100	MDL	0.401	PQL	mg/Kg	J	Q
SILVER	0.0252	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q

Sample ID: SL-162-SA7-SB-0.0-1.0 Collected: 10/11/2011 11:15:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0595	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 Collected: 10/11/2011 11:15:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.424		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-162-SA7-SB-0.0-1.0 Collected: 10/11/2011 11:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.135	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.37		0.0821	MDL	0.411	PQL	mg/Kg	J	E
COBALT	6.40		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.65		0.0821	MDL	0.411	PQL	mg/Kg	J	Q, E
NICKEL	12.9		0.103	MDL	0.411	PQL	mg/Kg	J	Q
SILVER	0.0222	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-166-SA7-SB-1.0-2.0 Collected: 10/11/2011 10:40:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 Collected: 10/11/2011 10:40:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.408		0.0517	MDL	0.103	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020			Matrix: SO						

Sample ID: SL-166-SA7-SB-1.0-2.0 Collected: 10/11/2011 10:40:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.168	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.64		0.0828	MDL	0.414	PQL	mg/Kg	J	E
COBALT	6.26		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.59		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.103	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0263	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-167-SA7-SB-0.5-1.5 Collected: 10/11/2011 9:25:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 Collected: 10/11/2011 9:25:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.434		0.0511	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-167-SA7-SB-0.5-1.5 Collected: 10/11/2011 9:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0756	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.78		0.0818	MDL	0.409	PQL	mg/Kg	J	E
COBALT	6.74		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	8.76		0.0818	MDL	0.409	PQL	mg/Kg	J	Q, E
NICKEL	13.4		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.0378	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-168-SA7-SB-0.5-1.5 Collected: 10/11/2011 1:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0808	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-168-SA7-SB-0.5-1.5 Collected: 10/11/2011 1:45:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.320		0.0510	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-168-SA7-SB-0.5-1.5 Collected: 10/11/2011 1:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0933	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	3.49		0.0816	MDL	0.408	PQL	mg/Kg	J	E
COBALT	5.04		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	6.34		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
NICKEL	9.62		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0234	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-265-SA6-SB-4.0-5.0 Collected: 10/11/2011 8:47:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0999	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 Collected: 10/11/2011 8:47:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.500		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-265-SA6-SB-4.0-5.0 Collected: 10/11/2011 8:47:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.0793	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	5.19		0.0857	MDL	0.429	PQL	mg/Kg	J	E
CADMIUM	0.103	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z
COBALT	5.62		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	8.96		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	14.8		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0402	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-009-SA3-SB-4.0-5.0	Collected: 10/11/2011 3:05:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0	Collected: 10/11/2011 3:25:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5	Collected: 10/11/2011 12:32:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0	Collected: 10/11/2011 11:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-009-SA3-SB-4.0-5.0	Collected: 10/11/2011 3:05:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0712	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0	Collected: 10/11/2011 3:25:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0087	J	0.0070	MDL	0.0988	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5	Collected: 10/11/2011 12:32:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0070	MDL	0.0992	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-162-SA7-SB-0.0-1.0	Collected: 10/11/2011 11:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0085	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0	Collected: 10/11/2011 10:40:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0099	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA7-SB-101111	Collected: 10/11/2011 2:30:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.07		0.483	MDL	0.965	PQL	ng/L	UJ	B, S, T

Sample ID: TB-101111	Collected: 10/11/2011 8:00:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.16		0.499	MDL	0.997	PQL	ng/L	UJ	B, S

Method Category:	SVOA	
Method:	1625C	Matrix: SO

Sample ID: SL-155-SA7-SB-1.5-2.5	Collected: 10/11/2011 12:32:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	22.2	J	17.2	MDL	34.4	PQL	ng/Kg	J	Z

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-049-SA7-SB-4.0-5.0	Collected: 10/11/2011 3:25:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.0	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/12/2012 9:08:58 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-155-SA7-SB-1.5-2.5	Collected: 10/11/2011 12:32:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-155-SA7-SB-1.5-2.5	Collected: 10/11/2011 12:32:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.0	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5	Collected: 10/11/2011 9:25:00	Analysis Type: REA2	Dilution: 26.04						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.9	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0	Collected: 10/11/2011 8:47:00	Analysis Type: REA2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	5.5	J	5.5	MDL	11	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-162-SA7-SB-0.0-1.0	Collected: 10/11/2011 11:15:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5	Collected: 10/11/2011 9:25:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.48	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.0	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-168-SA7-SB-0.5-1.5 Collected: 10/11/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.1	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 Collected: 10/11/2011 8:47:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.89	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-009-SA3-SB-4.0-5.0 Collected: 10/11/2011 3:05:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-049-SA7-SB-4.0-5.0 Collected: 10/11/2011 3:25:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-147-SA7-SB-1.0-2.0 Collected: 10/11/2011 11:22:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Sample ID: SL-155-SA7-SB-1.5-2.5 Collected: 10/11/2011 12:32:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-162-SA7-SB-0.0-1.0 Collected: 10/11/2011 11:15:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8270C	Matrix:	SO
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Sample ID: SL-166-SA7-SB-1.0-2.0 Collected: 10/11/2011 10:40:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	30	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	55	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	44	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 Collected: 10/11/2011 9:25:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
ACENAPHTHENE	57	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	17	MDL	350	PQL	ug/Kg	J	Z
DIBENZOFURAN	53	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	58	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENOL	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 Collected: 10/11/2011 1:45:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	65	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	47	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	45	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	94	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	40	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-168-SA7-SB-0.5-1.5 Collected: 10/11/2011 1:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	80	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 Collected: 10/11/2011 8:47:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-009-SA3-SB-4.0-5.0 Collected: 10/11/2011 3:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 Collected: 10/11/2011 3:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.2	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 Collected: 10/11/2011 11:22:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	0.79	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 Collected: 10/11/2011 12:32:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-162-SA7-SB-0.0-1.0 Collected: 10/11/2011 11:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	78	J	32	MDL	95	PQL	ug/Kg	J	Z
Butylbenzylphthalate	58	J	32	MDL	95	PQL	ug/Kg	J	Z
CHRYSENE	6.9	J	1.8	MDL	8.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	3.8	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
PHENANTHRENE	5.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 Collected: 10/11/2011 10:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.9	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 Collected: 10/11/2011 8:47:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.7	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.72	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: SL-265-SA6-SB-4.0-5.0 Collected: 10/11/2011 8:47:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	U	110	MDL	550	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE266

Method Blank Outlier Report

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH28B261523	10/17/2011 3:23:00 PM	N-NITROSODIMETHYLAMINE	1.14 ng/L	EB-SA7-SB-101111 TB-101111

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101111(RES)	N-NITROSODIMETHYLAMINE	3.07 ng/L	3.07U ng/L
TB-101111(RES)	N-NITROSODIMETHYLAMINE	1.16 ng/L	1.16U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28508AB220113	10/20/2011 1:13:00 AM	BORON PHOSPHORUS STRONTIUM	0.599 mg/Kg 1.39 mg/Kg 0.0750 mg/Kg	SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0
P28508AB220332	10/21/2011 3:32:00 AM	CALCIUM IRON MAGNESIUM TIN	13.1 mg/Kg 2.73 mg/Kg 0.891 mg/Kg 1.44 mg/Kg	SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-009-SA3-SB-4.0-5.0(REA)	TIN	4.24 mg/Kg	4.24U mg/Kg
SL-049-SA7-SB-4.0-5.0(REA)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-147-SA7-SB-1.0-2.0(REA)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-155-SA7-SB-1.5-2.5(REA)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-162-SA7-SB-0.0-1.0(REA)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-166-SA7-SB-1.0-2.0(REA)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-167-SA7-SB-0.5-1.5(REA)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-168-SA7-SB-0.5-1.5(REA)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-265-SA6-SB-4.0-5.0(REA)	TIN	3.02 mg/Kg	3.02U mg/Kg

Trip Blank Outlier Report

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101111(RES)	10/11/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	1.16 ng/L	EB-SA7-SB-101111 SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101111(RES)	N-NITROSODIMETHYLAMINE	3.07 ng/L	3.07U ng/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-265-SA6-SB-4.0-5.0MSD (SL-265-SA6-SB-4.0-5.0)	Isopropanol METHANOL	- -	- -	12.00-149.00 43.00-138.00	51 (20.00) 49 (20.00)	Isopropanol METHANOL	J (all detects)
SL-265-SA6-SB-4.0-5.0MS SL-265-SA6-SB-4.0-5.0MSD (SL-265-SA6-SB-4.0-5.0)	ETHANOL	43	-	48.00-130.00	48 (20.00)	ETHANOL	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA7-SB-1.5-2.5MS SL-155-SA7-SB-1.5-2.5MSD (SL-155-SA7-SB-1.5-2.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	9 43 52	8 42 50	59.00-109.00 63.00-107.00 63.00-107.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28526AQ220817A (SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0)	ANTIMONY	139	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0LELCSQ260920 (SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0)	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMIN	116 113 107 109	- - - -	66.00-110.00 68.00-111.00 70.00-104.00 63.00-107.00	- - - -	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMI	J(all detects)
P0LELCSQ260920 (SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL	41	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

<i>Sample ID</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
EB-SA7-SB-101111	N-Nitrosodimethylamine-d6	320	50.00-150.00	All Target Analytes	J (all detects)
TB-101111	N-Nitrosodimethylamine-d6	171	50.00-150.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA7-SB-1.5-2.5	N-NITROSODIMETHYLAMINE	J	22.2	34.4	PQL	ng/Kg	J (all detects)

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SB-4.0-5.0	Nitrate-NO3	J	0.92	1.6	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-166-SA7-SB-1.0-2.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-168-SA7-SB-0.5-1.5	Nitrate-NO3	J	1.1	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	TIN	J	4.24	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.82	5.36	PQL	mg/Kg	
SL-049-SA7-SB-4.0-5.0	SODIUM	J	77.8	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.80	10.0	PQL	mg/Kg	
	Zirconium	J	1.83	5.00	PQL	mg/Kg	
SL-147-SA7-SB-1.0-2.0	SODIUM	J	69.6	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.4	PQL	mg/Kg	
	Zirconium	J	1.56	5.18	PQL	mg/Kg	
SL-155-SA7-SB-1.5-2.5	SODIUM	J	82.9	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.87	10.0	PQL	mg/Kg	
	Zirconium	J	1.85	5.01	PQL	mg/Kg	
SL-162-SA7-SB-0.0-1.0	SODIUM	J	64.3	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.93	10.5	PQL	mg/Kg	
	Zirconium	J	1.88	5.23	PQL	mg/Kg	
SL-166-SA7-SB-1.0-2.0	SODIUM	J	72.2	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	10.3	PQL	mg/Kg	
	Zirconium	J	1.89	5.17	PQL	mg/Kg	
SL-167-SA7-SB-0.5-1.5	SODIUM	J	64.9	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.3	PQL	mg/Kg	
	Zirconium	J	1.89	5.16	PQL	mg/Kg	
SL-168-SA7-SB-0.5-1.5	SODIUM	J	63.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	10.1	PQL	mg/Kg	
	Zirconium	J	1.85	5.05	PQL	mg/Kg	
SL-265-SA6-SB-4.0-5.0	TIN	J	3.02	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.90	5.36	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	SELENIUM	J	0.100	0.429	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	ANTIMONY	J	0.142	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.140	0.412	PQL	mg/Kg	
	SILVER	J	0.0173	0.103	PQL	mg/Kg	
SL-147-SA7-SB-1.0-2.0	ANTIMONY	J	0.152	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.185	0.410	PQL	mg/Kg	
SL-155-SA7-SB-1.5-2.5	ANTIMONY	J	0.146	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.216	0.401	PQL	mg/Kg	
	SILVER	J	0.0252	0.100	PQL	mg/Kg	
SL-162-SA7-SB-0.0-1.0	ANTIMONY	J	0.135	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.411	PQL	mg/Kg	
	SILVER	J	0.0222	0.103	PQL	mg/Kg	
SL-166-SA7-SB-1.0-2.0	ANTIMONY	J	0.168	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.112	0.414	PQL	mg/Kg	
	SILVER	J	0.0263	0.103	PQL	mg/Kg	
SL-167-SA7-SB-0.5-1.5	ANTIMONY	J	0.163	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.101	0.409	PQL	mg/Kg	
	SILVER	J	0.0378	0.102	PQL	mg/Kg	
SL-168-SA7-SB-0.5-1.5	ANTIMONY	J	0.0933	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0808	0.408	PQL	mg/Kg	
	SILVER	J	0.0234	0.102	PQL	mg/Kg	
SL-265-SA6-SB-4.0-5.0	ANTIMONY	J	0.182	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.103	0.107	PQL	mg/Kg	
	SELENIUM	J	0.0999	0.429	PQL	mg/Kg	
	SILVER	J	0.0402	0.107	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.22	1.1	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	MERCURY	J	0.0712	0.109	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	MERCURY	J	0.0087	0.0988	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	MERCURY	J	0.0073	0.0992	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	MERCURY	J	0.0085	0.104	PQL	mg/Kg	J (all detects)
SL-166-SA7-SB-1.0-2.0	MERCURY	J	0.0099	0.102	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SB-4.0-5.0	EFH (C15-C20)	J	1.0	1.2	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	GASOLINE RANGE ORGANICS (C5-C12)	J	0.9	1.1	PQL	mg/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	ETHYLENE GLYCOL	J	5.5	11	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA7-SB-0.0-1.0	AROCLOR 1260	J	1.3	1.8	PQL	ug/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	AROCLOR 1248	J	0.48	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.0	3.5	PQL	ug/Kg	
SL-168-SA7-SB-0.5-1.5	Aroclor 5460	J	2.1	3.4	PQL	ug/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.89	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA7-SB-1.0-2.0	BENZO(A)ANTHRACENE	J	27	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	25	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	35	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	18	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	19	170	PQL	ug/Kg	
	CHRYSENE	J	30	170	PQL	ug/Kg	
	FLUORANTHENE	J	55	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	18	170	PQL	ug/Kg	
	PHENANTHRENE	J	27	170	PQL	ug/Kg	
PYRENE	J	44	170	PQL	ug/Kg		
SL-167-SA7-SB-0.5-1.5	ACENAPHTHENE	J	57	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	350	PQL	ug/Kg	
	DIBENZOFURAN	J	53	170	PQL	ug/Kg	
	FLUORENE	J	58	170	PQL	ug/Kg	
SL-168-SA7-SB-0.5-1.5	PHENOL	J	19	170	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	38	170	PQL	ug/Kg	
	BENZO(A)PYRENE	J	49	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	65	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	47	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	27	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	340	PQL	ug/Kg	
	CHRYSENE	J	45	170	PQL	ug/Kg	
	FLUORANTHENE	J	94	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	40	170	PQL	ug/Kg	
PHENANTHRENE	J	49	170	PQL	ug/Kg		
PYRENE	J	80	170	PQL	ug/Kg		

Reporting Limit Outliers

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	20	PQL	ug/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	PYRENE	J	0.75	1.7	PQL	ug/Kg	
SL-147-SA7-SB-1.0-2.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.79	1.8	PQL	ug/Kg	
SL-155-SA7-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	19	PQL	ug/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	BENZO(A)ANTHRACENE	J	6.2	8.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	7.6	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.2	8.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	78	95	PQL	ug/Kg	
	Butylbenzylphthalate	J	58	95	PQL	ug/Kg	
	CHRYSENE	J	6.9	8.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	3.8	8.8	PQL	ug/Kg	
PHENANTHRENE	J	5.2	8.8	PQL	ug/Kg		
SL-166-SA7-SB-1.0-2.0	ANTHRACENE	J	2.9	8.7	PQL	ug/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.7	20	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.72	1.8	PQL	ug/Kg	

LDC #: 26923C4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE266

ADR

Laboratory: Lancaster Laboratories

Date: 1/6/12

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No found by ZCB/CP
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	06/65
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A SW	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A K	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SL-265-SA6-SB-4.0-5.0	11		21		31	
2	SL-147-SA7-SB-1.0-2.0	12		22		32	
3	SL-155-SA7-SB-1.5-2.5	13		23		33	
4	SL-009-SA7-SB-4.0-5.0	14		24		34	
5	SL-049-SA7-SB-4.0-5.0	15		25		35	
6	SL-162-SA7-SB-0.0-1.0	16		26		36	
7	SL-166-SA7-SB-1.0-2.0	17		27		37	
8	SL-167-SA7-SB-0.5-1.5	18		28		38	
9	SL-168-SA7-SB-0.5-1.5	19		29		39	
10		20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE267

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Oct-2011	TB-101211	6435699	TB	3520C	1625C	III
12-Oct-2011	TB-101211	6435700	TB	3546	1625C	III
12-Oct-2011	TB-101211	6435701	TB	5030B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3060A	7199	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3546	1625C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8082	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8270C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8270C SIM	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	8330	8330A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	300.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	314.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	8315A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	9012B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3060A	7199	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3546	1625C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8082	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8270C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8270C SIM	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	8330	8330A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	300.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	314.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	8315A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	9012B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3546	1625C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8082	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8270C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8270C SIM	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	8330	8330A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	8315A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	3060A	7199	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	300.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	314.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	9012B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	P435690M252200B	MSD	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	P435690R252122B	MS	5035	8015M	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3050B	6010B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3050B	6020	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3060A	7199	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3546	1625C	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8015B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8015M	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8082	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8270C	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8270C SIM	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	5035	8015M	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	8330	8330A	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	300.0	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	314.0	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	7471A	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	8015B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	8315A	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	9012B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3050B	6010B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3050B	6020	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3060A	7199	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3546	1625C	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8015B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8015M	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8082	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8270C	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8270C SIM	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	5035	8015M	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	8330	8330A	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	300.0	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	314.0	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	7471A	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	8015B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	8015M	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	8315A	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	9012B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0DUP	P435696D271115A	DUP	METHOD	300.0	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0MS	P435696R271130A	MS	METHOD	300.0	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3005A	6010B	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3020A	6020	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8015B	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8082	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8270C	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8270C SIM	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3520C	1625C	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	5030B	8015M	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	8330	8330A	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	300.0	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	314.0	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	7199	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	8015B	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	8015M	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	METHOD	7470A	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	METHOD	8315A	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	METHOD	9012B	III
12-Oct-2011	EB-SA3-SB-101211MSD	P435702M322133A	MSD	Gen Prep	8015M	III
12-Oct-2011	EB-SA3-SB-101211MS	P435702R322120A	MS	Gen Prep	8015M	III
12-Oct-2011	EB-SA3-SB-101211	6435698	EB	3520C	1625C	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM								
Method:	300.0			Matrix: SO					

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.80	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.96	J	0.80	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.82	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.0	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-096-SA7-SB-2.0-3.0 Collected: 10/12/2011 11:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS								
Method:	6010B			Matrix: AQ					

Sample ID: EB-SA3-SB-101211 Collected: 10/12/2011 2:23:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0047	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z

Method Category:	METALS								
Method:	6010B			Matrix: SO					

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.21	J	0.358	MDL	4.97	PQL	mg/Kg	J	Z
PHOSPHORUS	291		0.348	MDL	9.95	PQL	mg/Kg	J	Q, E
TIN	2.81	J	0.318	MDL	9.95	PQL	mg/Kg	U	B
Zirconium	2.91	J	0.458	MDL	4.97	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.50	J	0.357	MDL	4.96	PQL	mg/Kg	J	Z
PHOSPHORUS	289		0.347	MDL	9.93	PQL	mg/Kg	J	Q, E
SODIUM	89.3	J	5.91	MDL	99.3	PQL	mg/Kg	J	Z
TIN	2.72	J	0.318	MDL	9.93	PQL	mg/Kg	U	B
Zirconium	2.86	J	0.457	MDL	4.96	PQL	mg/Kg	J	Z

Sample ID: SL-096-SA7-SB-2.0-3.0 Collected: 10/12/2011 11:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.77	J	0.376	MDL	5.22	PQL	mg/Kg	J	Z
PHOSPHORUS	276		0.366	MDL	10.4	PQL	mg/Kg	J	Q, E
TIN	2.77	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.08	J	0.481	MDL	5.22	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0591	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z, FD

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.363		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	63.0		0.106	MDL	0.402	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0743	U	0.0743	MDL	0.201	PQL	mg/Kg	UJ	Q, E
ARSENIC	3.83		0.0804	MDL	0.402	PQL	mg/Kg	J	Q, E, FD
CADMIUM	0.0958	J	0.0442	MDL	0.100	PQL	mg/Kg	J	Z, Q
CHROMIUM	12.6		0.121	MDL	0.402	PQL	mg/Kg	J	Q
COBALT	4.87		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	6.91		0.0804	MDL	0.402	PQL	mg/Kg	J	A
LEAD	5.20		0.0102	MDL	0.201	PQL	mg/Kg	J	Q, Q, E, E, A
NICKEL	8.45		0.100	MDL	0.402	PQL	mg/Kg	J	E, A
SILVER	0.0334	J	0.0143	MDL	0.100	PQL	mg/Kg	J	Z, Q
VANADIUM	26.0		0.0221	MDL	0.100	PQL	mg/Kg	J	Q, E, A
ZINC	49.4		0.563	MDL	3.01	PQL	mg/Kg	J	A

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z, FD

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.290		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.2		0.107	MDL	0.405	PQL	mg/Kg	J	E, A

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0749	U	0.0749	MDL	0.202	PQL	mg/Kg	UJ	Q, E
ARSENIC	6.41		0.0810	MDL	0.405	PQL	mg/Kg	J	Q, E, FD
CADMIUM	0.127		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	17.8		0.121	MDL	0.405	PQL	mg/Kg	J	Q
COBALT	6.94		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6020	Matrix:	SO						

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.20		0.0810	MDL	0.405	PQL	mg/Kg	J	A
LEAD	8.25		0.0103	MDL	0.202	PQL	mg/Kg	J	Q, Q, E, E, A
NICKEL	12.3		0.101	MDL	0.405	PQL	mg/Kg	J	E, A
SILVER	0.0395	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
VANADIUM	35.2		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, E, A
ZINC	68.2		0.567	MDL	3.04	PQL	mg/Kg	J	A

Sample ID: SL-096-SA7-SB-2.0-3.0 Collected: 10/12/2011 11:40:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.325		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-096-SA7-SB-2.0-3.0 Collected: 10/12/2011 11:40:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	53.8		0.111	MDL	0.418	PQL	mg/Kg	J	E, A

Sample ID: SL-096-SA7-SB-2.0-3.0 Collected: 10/12/2011 11:40:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	U	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q, E
ARSENIC	3.62		0.0836	MDL	0.418	PQL	mg/Kg	J	Q, E
CADMIUM	0.0640	J	0.0460	MDL	0.104	PQL	mg/Kg	J	Z, Q
CHROMIUM	11.4		0.125	MDL	0.418	PQL	mg/Kg	J	Q
COBALT	4.50		0.0209	MDL	0.104	PQL	mg/Kg	J	Q, A
COPPER	6.05		0.0836	MDL	0.418	PQL	mg/Kg	J	A
LEAD	4.34		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, Q, E, E, A
NICKEL	7.27		0.104	MDL	0.418	PQL	mg/Kg	J	E, A
SILVER	0.0188	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q
VANADIUM	24.5		0.0230	MDL	0.104	PQL	mg/Kg	J	Q, E, A
ZINC	46.8		0.585	MDL	3.13	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-096-SA7-SB-2.0-3.0 Collected: 10/12/2011 11:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA3-SB-101211 Collected: 10/12/2011 2:23:00 Analysis Type: REA-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.69		0.534	MDL	1.07	PQL	ng/L	UJ	B, S, T

Sample ID: EB-SA3-SB-101211 Collected: 10/12/2011 2:23:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.54		0.508	MDL	1.02	PQL	ng/L	UJ	B, S, T

Sample ID: TB-101211 Collected: 10/12/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.03		0.492	MDL	0.983	PQL	ng/L	UJ	B, S

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.48	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: RES Dilution: 27.35

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	U	0.2	MDL	1.1	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.45	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z, Q, Q
EFH (C21-C30)	1.7		0.41	MDL	1.2	PQL	mg/Kg	J	Q, Q
EFH (C30-C40)	5.1		0.41	MDL	1.2	PQL	mg/Kg	J	Q, Q

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: RES Dilution: 24.65

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	3.2		0.2	MDL	1.0	PQL	mg/Kg	J	FD

Sample ID: SL-096-SA7-SB-2.0-3.0 Collected: 10/12/2011 11:40:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	1.0	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C15-C20)	0.70	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.2	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.48	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-096-SA7-SB-2.0-3.0 Collected: 10/12/2011 11:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.67	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	Q, L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	R	Q
PENTACHLOROPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	Q

Sample ID: SL-096-SA7-SB-2.0-3.0 Collected: 10/12/2011 11:40:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	35	J	17	MDL	350	PQL	ug/Kg	J	Z
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: AQ

Sample ID: EB-SA3-SB-101211 Collected: 10/12/2011 2:23:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	0.14	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.28	J	0.055	MDL	1.1	PQL	ug/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: DUP01-SA3-QC-101211 Collected: 10/12/2011 10:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.88	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA3-SB-4.0-5.0 Collected: 10/12/2011 10:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.78	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	0.73	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-096-SA7-SB-2.0-3.0 Collected: 10/12/2011 11:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.82	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.70	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.77	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
*#	Professional Judgment
A	ICP Serial Dilution
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
FD	Field Duplicate Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
T	Trip Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE267

Method Blank Outlier Report

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH28B261523	10/17/2011 3:23:00 PM	N-NITROSODIMETHYLAMINE	1.14 ng/L	EB-SA3-SB-101211 TB-101211

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101211(REA)	N-NITROSODIMETHYLAMINE	2.69 ng/L	2.69U ng/L
EB-SA3-SB-101211(RES)	N-NITROSODIMETHYLAMINE	2.54 ng/L	2.54U ng/L
TB-101211(RES)	N-NITROSODIMETHYLAMINE	1.03 ng/L	1.03U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29248FB221946	10/21/2011 7:46:00 PM	MANGANESE	0.00046 mg/L	EB-SA3-SB-101211

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28708BB220046	10/24/2011 12:46:00 AM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	7.22 mg/Kg 4.39 mg/Kg 0.877 mg/Kg 0.0440 mg/Kg 1.13 mg/Kg 0.0380 mg/Kg 1.43 mg/Kg	DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA3-QC-101211(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-011-SA3-SB-4.0-5.0(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-096-SA7-SB-2.0-3.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28726AB220450A	10/18/2011 4:50:00 AM	ARSENIC LEAD VANADIUM	0.0815 mg/Kg 0.0143 mg/Kg 0.0333 mg/Kg	DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0

Trip Blank Outlier Report

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101211(RES)	10/12/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	1.03 ng/L	DUP01-SA3-QC-101211 EB-SA3-SB-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101211(REA)	N-NITROSODIMETHYLAMINE	2.69 ng/L	2.69U ng/L
EB-SA3-SB-101211(RES)	N-NITROSODIMETHYLAMINE	2.54 ng/L	2.54U ng/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
EB-SA3-SB-101211MS EB-SA3-SB-101211MSD (EB-SA3-SB-101211)	ETHYLENE GLYCOL Propylene glycol	137 135	137 135	89.00-125.00 91.00-128.00	- -	ETHYLENE GLYCOL Propylene glycol	J(all detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	- - 132 165 -	894 1343 329 - 129	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	169 (20.00) 172 (20.00) 63 (20.00) 22 (20.00) 73 (20.00)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J (all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	5 47 -	8 45 62	59.00-109.00 63.00-107.00 63.00-107.00	42 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS (DUP01 -SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	CADMIUM COBALT SILVER	128 128 131	- - -	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CADMIUM COBALT SILVER	J(all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01 -SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	LEAD ZINC	134 5	29 -20	75.00-125.00 75.00-125.00	29 (20.00) -	LEAD ZINC	J(all detects) R(all non-detects) Zn, No Qual, >4x Pb post spike = -196%
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01 -SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	ANTIMONY ARSENIC CHROMIUM VANADIUM	58 64 - -	42 39 71 34	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	32 (20.00) - - -	ANTIMONY ARSENIC CHROMIUM VANADIUM	J(all detects) UJ(all non-detects)
SL-011-SA3-SB-4.0-5.0MS (DUP01 -SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	MOLYBDENUM	133	-	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01 -SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	BARIUM	48	-93	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	ALUMINUM IRON MAGNESIUM MANGANESE	1904 2018 259 129	866 859 223 -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MAGNESIUM MANGANESE	No Qual, >4x
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	CALCIUM	-110	57	75.00-125.00	-	CALCIUM	No Qual, >4x
SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	PHOSPHORUS	-	258	75.00-125.00	39 (20.00)	PHOSPHORUS	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	ISOPHORONE	108	107	73.00-102.00	-	ISOPHORONE	J(all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	2,4-DINITROPHENOL BENZOIC ACID	0 0	0 0	20.00-143.00 10.00-173.00	- -	2,4-DINITROPHENOL BENZOIC ACID	J(all detects) R(all non-detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL PENTACHLOROPHENOL	10 24	- -	11.00-126.00 28.00-127.00	- 52 (30.00)	4,6-DINITRO-2-METHYLPHENOL PENTACHLOROPHENOL	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS (SL-011-SA3-SB-4.0-5.0)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	TITANIUM	258	255	75.00-125.00	-	TITANIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-096-SA7-SB-2.0-3.0MS (DUP01-SA3-QC-101211 SL-096-SA7-SB-2.0-3.0)	FLUORIDE	38	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-011-SA3-SB-4.0-5.0DUP (DUP01-SA3-QC-101211 SL -011-SA3-SB-4.0-5.0 SL -096-SA7-SB-2.0-3.0)	Zirconium	35	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-011-SA3-SB-4.0-5.0DUP (DUP01-SA3-QC-101211 SL -011-SA3-SB-4.0-5.0 SL -096-SA7-SB-2.0-3.0)	ARSENIC BARIUM LEAD NICKEL SELENIUM SILVER THALLIUM VANADIUM	21 22 24 21 30 73 27 22	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Se, Ag, Tl, No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12910AQ322054A (EB-SA3-SB-101211)	ETHYLENE GLYCOL Propylene glycol	137 140	- -	78.00-136.00 65.00-132.00	- -	ETHYLENE GLYCOL Propylene glycol	J (all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCYSY260627 (EB-SA3-SB-101211)	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	- - -	109 114 112	79.00-107.00 75.00-109.00 53.00-110.00	- - -	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28726AQ220453A (DUP01-SA3-QC-101211 SL -011-SA3-SB-4.0-5.0 SL -096-SA7-SB-2.0-3.0)	ANTIMONY	77	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0LELCSQ260920 (DUP01-SA3-QC-101211 SL -011-SA3-SB-4.0-5.0 SL -096-SA7-SB-2.0-3.0)	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMIN	116 113 107 109	- - - -	66.00-110.00 68.00-111.00 70.00-104.00 63.00-107.00	- - - -	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMI	J(all detects)
P0LELCSQ260920 (DUP01-SA3-QC-101211 SL -011-SA3-SB-4.0-5.0 SL -096-SA7-SB-2.0-3.0)	4,6-DINITRO-2-METHYLPHENOL	41	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: AQ

<i>Sample ID</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
EB-SA3-SB-101211	N-Nitrosodimethylamine-d6	347	50.00-150.00	All Target Analytes	J (all detects)
	N-Nitrosodimethylamine-d6	305	50.00-150.00		
TB-101211	N-Nitrosodimethylamine-d6	190	50.00-150.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
MOISTURE	2.2	2.4	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
FLUORIDE	2.1	2.2	5	50.00	No Qualifiers Applied
Nitrate-NO3	1.0	0.96	4	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
ALUMINUM	9830	10500	7	50.00	No Qualifiers Applied
BORON	3.50	3.21	9	50.00	
CALCIUM	5160	7000	30	50.00	
IRON	17400	19400	11	50.00	
LITHIUM	24.7	28.7	15	50.00	
MAGNESIUM	3410	3920	14	50.00	
MANGANESE	238	264	10	50.00	
PHOSPHORUS	289	291	1	50.00	
POTASSIUM	1970	2320	16	50.00	
SODIUM	89.3	125	33	50.00	
STRONTIUM	19.5	26.1	29	50.00	
TIN	2.72	2.81	3	50.00	
TITANIUM	1080	1030	5	50.00	
Zirconium	2.86	2.91	2	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
BARIUM	85.2	63.0	30	50.00	No Qualifiers Applied
BERYLLIUM	0.689	0.471	38	50.00	
CADMIUM	0.127	0.0958	28	50.00	
CHROMIUM	17.8	12.6	34	50.00	
COBALT	6.94	4.87	35	50.00	
COPPER	9.20	6.91	28	50.00	
LEAD	8.25	5.20	45	50.00	
MOLYBDENUM	0.290	0.363	22	50.00	
NICKEL	12.3	8.45	37	50.00	
SILVER	0.0395	0.0334	17	50.00	
THALLIUM	0.312	0.215	37	50.00	
VANADIUM	35.2	26.0	30	50.00	
ZINC	68.2	49.4	32	50.00	
ARSENIC	6.41	3.83	50	50.00	
SELENIUM	0.167	0.0591	95	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
EFH (C15-C20)	0.45	0.48	6	50.00	No Qualifiers Applied
EFH (C21-C30)	1.7	2.4	34	50.00	
EFH (C30-C40)	5.1	6.5	24	50.00	
GASOLINE RANGE ORGANICS (C5-C12)	3.2	1.1 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
AROCOR 1260	0.48	1.2	86	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
BENZO(G,H,I)PERYLENE	0.73	0.88	19	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	0.78	1.7 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
PH	8.55	8.65	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA3-SB-101211	BORON	J	0.0047	0.0500	PQL	mg/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA3-SB-101211	Diethylphthalate	J	0.14	1.1	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.28	1.1	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	Nitrate-NO3	J	0.96	1.5	PQL	mg/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	Nitrate-NO3	J	1.0	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	BORON	J	3.21	4.97	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	9.95	PQL	mg/Kg	
	Zirconium	J	2.91	4.97	PQL	mg/Kg	
SL-011-SA3-SB-4.0-5.0	BORON	J	3.50	4.96	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.3	99.3	PQL	mg/Kg	
	TIN	J	2.72	9.93	PQL	mg/Kg	
	Zirconium	J	2.86	4.96	PQL	mg/Kg	
SL-096-SA7-SB-2.0-3.0	BORON	J	3.77	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.4	PQL	mg/Kg	
	Zirconium	J	3.08	5.22	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	CADMIUM	J	0.0958	0.100	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0591	0.402	PQL	mg/Kg	
	SILVER	J	0.0334	0.100	PQL	mg/Kg	
SL-011-SA3-SB-4.0-5.0	SELENIUM	J	0.167	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0395	0.101	PQL	mg/Kg	
SL-096-SA7-SB-2.0-3.0	CADMIUM	J	0.0640	0.104	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0188	0.104	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE267

Laboratory: LL

EDD Filename: DE267_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-096-SA7-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	EFH (C15-C20)	J	0.48	1.2	PQL	mg/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	EFH (C15-C20)	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-096-SA7-SB-2.0-3.0	EFH (C12-C14)	J	1.0	1.3	PQL	mg/Kg	J (all detects)
	EFH (C15-C20)	J	0.70	1.3	PQL	mg/Kg	

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	AROCLOR 1260	J	1.2	1.7	PQL	ug/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	AROCLOR 1260	J	0.48	1.7	PQL	ug/Kg	J (all detects)
SL-096-SA7-SB-2.0-3.0	AROCLOR 1260	J	0.67	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-096-SA7-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	35	350	PQL	ug/Kg	J (all detects)
	PHENOL	J	18	170	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	BENZO(G,H,I)PERYLENE	J	0.88	1.7	PQL	ug/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.78	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.73	1.7	PQL	ug/Kg	
SL-096-SA7-SB-2.0-3.0	BENZO(K)FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.82	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.70	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.77	1.7	PQL	ug/Kg	
	PYRENE	J	1.2	1.7	PQL	ug/Kg	

LDC #: 26979C4

VALIDATION COMPLETENESS WORKSHEET

Date: 1-20-12

SDG #: DE267

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: CL

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn) 74%
VII.	Duplicate Sample Analysis	N	Dup (Se, Pb, Ti, Zr) < 5xRL, No Qual
VIII.	Laboratory Control Samples (LCS)	A	LCS/D [unclear]
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB=4

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SL-011-SA3-SB-4.0-5.0	11		21		31	
2	SL-096-SA7-SB-2.0-3.0	12		22		32	
3	DUP01-SA3-QC-101211	13		23		33	
4	EB-SA3-SB-101211 W	14		24		34	
5	SL-011-SA3-SB-4.0-5.0MS	15		25		35	
6	SL-011-SA3-SB-4.0-5.0MSD	16		26		36	
7	SL-011-SA3-SB-4.0-5.0DUP	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reason: B

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 100x x MS (2x dil), Hg, 167x

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: All Sed (S,)

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	No Quals					
Tl			0.11	0.11						
Hg			0.021	0.04						

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.



QUALITY ASSURANCE SUMMARY
 FORM 9
 SERIAL DILUTIONS
 SDG No.: DE267
 Matrix: SOIL

J/USA

Level (low/med): LOW

Background Lab Sample ID: 6435690BKG Serial Dilution Lab Sample ID: 6435690L
 Batch ID(s): P28708B, P28726A, P29708D
 Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		99025.3300		99090.2000		0		P
Antimony	121	0.3700	U	1.8500	U			MS
Arsenic	75	31.6600		27.4350		13		MS
[REDACTED]	137	420.6000		341.5000		19	E	MS
Beryllium	9	3.4040		3.1300		8		MS
Boron		35.3000	B	63.8000	B	81		P
Cadmium	111	0.6250		1.1000	U	100		MS
Calcium		51949.4800		52577.1500		1		P
Chromium	52	87.7500		80.0500		9		MS
[REDACTED]	59	34.2800		26.9550		21	E	MS
[REDACTED]	63	45.4500		37.2350		18	E	MS
Iron		175354.9400		166502.7000		5		P
[REDACTED]	208	40.7300		33.0050		19	E	MS
Lithium		248.4100		253.3500		2		P
Magnesium		34397.3600		34587.6500		1		P
Manganese		2397.1300		2418.0500		1		P
Molybdenum	98	1.4320		1.3960	B	3		MS
[REDACTED]	60	60.5400		47.9050		21	E	MS
Phosphorus		2915.1500		2844.4000		2		P
Potassium		19842.7100		18968.7000		4		P
Selenium	78	0.8231	B	1.4500	U	100		MS
Silver	107	0.1949	B	0.3550	U	100		MS
Sodium		899.0600	B	846.2500	B	6		P
Strontium		196.6900		192.2500		2		P
Thallium	203	1.5420		1.2380	B	20		MS
Tin		27.4400	B	28.9000	B	5		P
Titanium		10977.8900		11360.6500		3		P
[REDACTED]	51	174.0000		152.4000		12	E	MS
[REDACTED]	66	337.0000		275.0000		18	E	MS
Zirconium		28.8600	B	42.8500	B	48		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS: P = ICP Atomic Emission Spectrometer MS = ICP Mass Spectrometry	CONCENTRATION QUALIFIERS: U= Below MDL B= Below LOQ	DE267 2944
	FLAGS: E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution	

SAMPLE DELIVERY GROUP

DE268

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	TB-101311	6437203	TB	3520C	1625C	III
13-Oct-2011	TB-101311	6437204	TB	3546	1625C	III
13-Oct-2011	TB-101311	6437205	TB	5030B	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3050B	6010B	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3050B	6020	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3060A	7199	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3546	1625C	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8015B	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8082	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8270C	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8270C SIM	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	5035	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	8330	8330A	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	300.0	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	314.0	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	7471A	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	8015B	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	8315A	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	9012B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3050B	6010B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3050B	6020	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3060A	7199	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3546	1625C	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8015M	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8082	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8270C	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8270C SIM	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	5035	8015M	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	8330	8330A	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	300.0	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	314.0	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	7471A	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	8015B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	8015M	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	8315A	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	9012B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3060A	7199	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3546	1625C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8082	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8270C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8270C SIM	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	5035	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	8330	8330A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	300.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	8315A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	9012B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3060A	7199	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3546	1625C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8082	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8270C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8270C SIM	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	5035	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	8330	8330A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	300.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	314.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	8315A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	9012B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3546	1625C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8082	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8270C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8270C SIM	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	5035	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	8330	8330A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	8315A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	3060A	7199	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	300.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	314.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	9012B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3050B	6010B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3050B	6020	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3060A	7199	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3546	1625C	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8015B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8015M	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8082	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8270C SIM	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	5035	8015M	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	8330	8330A	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	300.0	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	314.0	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	7471A	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	8015B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	8015M	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	8315A	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	9012B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3005A	6010B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3020A	6020	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8015B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8015M	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8082	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8270C	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8270C SIM	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3520C	1625C	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	5030B	8015M	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	8330	8330A	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	300.0	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	314.0	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	7199	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	8015B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	8015M	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	METHOD	7470A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	METHOD	8315A	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	METHOD	9012B	III
13-Oct-2011	EB-SA7-SB-101311	6437202	EB	3520C	1625C	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 300.0 **Matrix: SO**

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA3-SB-4.0-5.0 Collected: 10/13/2011 12:09:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.89	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.6	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-7.5-8.5 Collected: 10/13/2011 11:34:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.96	U	0.96	MDL	1.2	PQL	mg/Kg	UJ	Q
Nitrate-NO3	1.7	J	0.96	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS
Method: 6010B **Matrix: AQ**

Sample ID: EB-SA7-SB-101311 Collected: 10/13/2011 2:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0068	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00051	J	0.00022	MDL	0.0050	PQL	mg/L	J	Z

Method Category: METALS
Method: 6010B **Matrix: SO**

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22600		2.84	MDL	21.8	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.56	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.813	J	0.501	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.17	J	0.392	MDL	5.44	PQL	mg/Kg	U	F

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2440		12.2	MDL	53.9	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA3-SB-4.0-5.0 Collected: 10/13/2011 12:09:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19900		2.86	MDL	21.9	PQL	mg/Kg	J	E
TIN	2.73	J	0.350	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.56	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-4.0-5.0 Collected: 10/13/2011 12:09:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1800		12.0	MDL	53.2	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA3-SB-7.5-8.5 Collected: 10/13/2011 11:34:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	15300		3.08	MDL	23.6	PQL	mg/Kg	J	E
TIN	2.60	J	0.378	MDL	11.8	PQL	mg/Kg	U	B
Zirconium	1.06	J	0.543	MDL	5.90	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-7.5-8.5 Collected: 10/13/2011 11:34:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2170		13.3	MDL	59.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix: SO**

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22900		2.85	MDL	21.8	PQL	mg/Kg	J	E
TIN	2.96	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.02	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.17	J	0.392	MDL	5.45	PQL	mg/Kg	U	F

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2680		12.4	MDL	55.0	PQL	mg/Kg	J	Q

Method Category: METALS
Method: 6020 **Matrix: AQ**

Sample ID: EB-SA7-SB-101311 Collected: 10/13/2011 2:30:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000089	J	0.000080	MDL	0.0010	PQL	mg/L	J	Z
ZINC	0.0056	J	0.0040	MDL	0.0150	PQL	mg/L	J	Z

Method Category: METALS
Method: 6020 **Matrix: SO**

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0631	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.115	MDL	0.435	PQL	mg/Kg	J	A

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0805	U	0.0805	MDL	0.218	PQL	mg/Kg	UJ	Q, FD
CADMIUM	0.0996	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	22.6		0.131	MDL	0.435	PQL	mg/Kg	J	A
COBALT	7.69		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	10.7		0.0871	MDL	0.435	PQL	mg/Kg	J	A
LEAD	6.46		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, A
NICKEL	14.9		0.109	MDL	0.435	PQL	mg/Kg	J	A
SILVER	0.0387	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	45.1		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, A

Sample ID: SL-005-SA3-SB-4.0-5.0 Collected: 10/13/2011 12:09:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0769	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-4.0-5.0 Collected: 10/13/2011 12:09:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.113	MDL	0.425	PQL	mg/Kg	J	A

Sample ID: SL-005-SA3-SB-4.0-5.0 Collected: 10/13/2011 12:09:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.106	J	0.0787	MDL	0.213	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0489	J	0.0468	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	18.0		0.128	MDL	0.425	PQL	mg/Kg	J	A
COBALT	6.22		0.0213	MDL	0.106	PQL	mg/Kg	J	A
COPPER	6.71		0.0851	MDL	0.425	PQL	mg/Kg	J	A
LEAD	6.14		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, A
NICKEL	11.4		0.106	MDL	0.425	PQL	mg/Kg	J	A
SILVER	0.0647	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	39.1		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-005-SA3-SB-7.5-8.5 Collected: 10/13/2011 11:34:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	65.0		0.126	MDL	0.477	PQL	mg/Kg	J	A

Sample ID: SL-005-SA3-SB-7.5-8.5 Collected: 10/13/2011 11:34:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0882	U	0.0882	MDL	0.238	PQL	mg/Kg	UJ	Q
CHROMIUM	14.0		0.143	MDL	0.477	PQL	mg/Kg	J	A
COBALT	4.28		0.0238	MDL	0.119	PQL	mg/Kg	J	A
COPPER	5.13		0.0954	MDL	0.477	PQL	mg/Kg	J	A
LEAD	3.65		0.0122	MDL	0.238	PQL	mg/Kg	J	Q, A
NICKEL	7.76		0.119	MDL	0.477	PQL	mg/Kg	J	A
SILVER	0.0206	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	28.7		0.0262	MDL	0.119	PQL	mg/Kg	J	Q, A

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.184	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.4		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.153	J	0.0831	MDL	0.225	PQL	mg/Kg	J	Z, Q, FD
CADMIUM	0.0810	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	19.6		0.135	MDL	0.449	PQL	mg/Kg	J	A
COBALT	6.53		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	9.47		0.0898	MDL	0.449	PQL	mg/Kg	J	A
LEAD	5.14		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	13.1		0.112	MDL	0.449	PQL	mg/Kg	J	A
SILVER	0.0383	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.8		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, A

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-005-SA3-SB-4.0-5.0 Collected: 10/13/2011 12:09:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0078	U	0.0078	MDL	0.111	PQL	mg/Kg	UJ	FD

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0077	J	0.0075	MDL	0.107	PQL	mg/Kg	UJ	FD, B

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA7-SB-101311 Collected: 10/13/2011 2:30:00 Analysis Type: REA-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.50		0.524	MDL	1.05	PQL	ng/L	U	B

Sample ID: EB-SA7-SB-101311 Collected: 10/13/2011 2:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.61		0.486	MDL	0.972	PQL	ng/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	1625C	Matrix:	AQ

Sample ID: TB-101311 Collected: 10/13/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.23		0.501	MDL	1.00	PQL	ng/L	U	B

Method Category:	SVOA		
Method:	8015M	Matrix:	SO

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: REA Dilution: 24.08

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	U	0.2	MDL	1.1	PQL	mg/Kg	UJ	FD

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.63	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.45	U	0.45	MDL	1.3	PQL	mg/Kg	UJ	FD

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.59	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	6.2		0.45	MDL	1.4	PQL	mg/Kg	J	Q
EFH (C8-C11)	0.58	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z, Q, Q, FD

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.7	U	5.7	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: RES Dilution: 25.3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.3	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1254	1.5	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, FD
AROCLOR 1260	0.90	J	0.44	MDL	1.9	PQL	ug/Kg	J	Z, FD
Aroclor 5460	14		1.1	MDL	3.7	PQL	ug/Kg	J	FD

Sample ID: SL-005-SA3-SB-4.0-5.0 Collected: 10/13/2011 12:09:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: SL-005-SA3-SB-7.5-8.5 Collected: 10/13/2011 11:34:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.39	U	0.39	MDL	2.0	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.39	U	0.39	MDL	2.0	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.39	U	0.39	MDL	2.0	PQL	ug/Kg	UJ	L

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1260	0.44	U	0.44	MDL	1.9	PQL	ug/Kg	UJ	FD
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	37	U	37	MDL	190	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	19	MDL	370	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: AQ

Sample ID: EB-SA7-SB-101311 Collected: 10/13/2011 2:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	0.11	J	0.049	MDL	0.98	PQL	ug/L	J	Z
Di-n-butylphthalate	0.19	J	0.049	MDL	0.98	PQL	ug/L	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: DUP09-SA7-QC-101311 Collected: 10/13/2011 12:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	8.7		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	14		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	18		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	9.0		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	6.6		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	28		6.7	MDL	20	PQL	ug/Kg	J	FD
CHRYSENE	10		0.37	MDL	1.9	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	2.2		0.75	MDL	1.9	PQL	ug/Kg	J	FD
FLUORANTHENE	8.7		0.75	MDL	1.9	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	8.3		0.75	MDL	1.9	PQL	ug/Kg	J	FD
PHENANTHRENE	1.0	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z, FD
PYRENE	8.9		0.75	MDL	1.9	PQL	ug/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-005-SA3-SB-4.0-5.0 Collected: 10/13/2011 12:09:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.77	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA3-SB-7.5-8.5 Collected: 10/13/2011 11:34:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	7.2	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 Collected: 10/13/2011 12:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
CHRYSENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD
DIBENZO(A,H)ANTHRACENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: PrepDE268_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
FD	Field Duplicate Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE268

Method Blank Outlier Report

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA29B261239	11/1/2011 12:39:00 PM	N-NITROSODIMETHYLAMINE	1.33 ng/L	EB-SA7-SB-101311 TB-101311

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101311(REA)	N-NITROSODIMETHYLAMINE	4.50 ng/L	4.50U ng/L
EB-SA7-SB-101311(RES)	N-NITROSODIMETHYLAMINE	4.61 ng/L	4.61U ng/L
TB-101311(RES)	N-NITROSODIMETHYLAMINE	1.23 ng/L	1.23U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29048FB220746	10/21/2011 7:46:00 AM	BORON Zirconium	0.0046 mg/L 0.0093 mg/L	EB-SA7-SB-101311

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101311(RES)	BORON	0.0068 mg/L	0.0068U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29008BB220208	10/25/2011 2:08:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	6.41 mg/Kg 1.73 mg/Kg 0.0510 mg/Kg 1.44 mg/Kg	DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA7-QC-101311(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-005-SA3-SB-4.0-5.0(REA)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-005-SA3-SB-7.5-8.5(REA)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-089-SA7-SB-3.5-4.5(REA)	TIN	2.96 mg/Kg	2.96U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA7-SB-101311(RES)	10/13/2011 2:30:00 PM	BORON STRONTIUM	0.0068 mg/L 0.00051 mg/L	DUP09-SA7-QC-101311 SL-089-SA7-SB-3.5-4.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA7-QC-101311(REA2)	BORON	1.17 mg/Kg	1.17U mg/Kg
SL-089-SA7-SB-3.5-4.5(REA2)	BORON	1.17 mg/Kg	1.17U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	EFH (C30-C40)	-	138	49.00-123.00	-	EFH (C30-C40)	J (all detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	EFH (C8-C11)	0	5	49.00-123.00	-	EFH (C8-C11)	J(all detects) R(all non-detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	DIETHYLENE GLYCOL	47	48	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	LEAD VANADIUM ZINC	- - -	146 137 145	75.00-125.00 75.00-125.00 75.00-125.00	- - -	LEAD VANADIUM ZINC	J(all detects) Zn, No Qual, >4x
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	ANTIMONY	39	43	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	BARIUM	138	141	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	ALUMINUM CALCIUM MAGNESIUM TITANIUM	2054 156 398 307	1557 - 211 281	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM MAGNESIUM TITANIUM	No Qual, >4x
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	IRON MANGANESE	2305 45	15740 74	75.00-125.00 75.00-125.00	45 (20.00) -	IRON MANGANESE	J(all detects) UJ(all non-detects) Fe, Mn, No Qual %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID BIS(2-CHLOROETHOXY)METHA ISOPHORONE PENTACHLOROPHENOL	- - 108 109 -	- - 109 110 -	11.00-126.00 10.00-173.00 75.00-104.00 73.00-102.00 28.00-127.00	49 (30.00) 49 (30.00) - - 31 (30.00)	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID BIS(2-CHLOROETHOXY)METH ISOPHORONE PENTACHLOROPHENOL	J(all detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	3,5-Dimethylphenol	0	0	71.00-127.00	-	3,5-Dimethylphenol	J(all detects) R(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MS (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	FLUORIDE	70	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MS (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	POTASSIUM	128	-	75.00-125.00	-	POTASSIUM	J(all detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	Di-n-butylphthalate	-	159	65.00-148.00	34 (30.00)	Di-n-butylphthalate	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	BORON Zirconium	25 40	20.00 20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	CADMIUM	21	20.00	No Qual, OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-089-SA7-SB-3.5-4.5)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	MERCURY	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12910AQ322054A (EB-SA7-SB-101311)	ETHYLENE GLYCOL Propylene glycol	137 140	- -	78.00-136.00 65.00-132.00	- -	ETHYLENE GLYCOL Propylene glycol	J(all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCYSY260627 (EB-SA7-SB-101311)	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	- - -	109 114 112	79.00-107.00 75.00-109.00 53.00-110.00	- - -	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12915AQ240707A (DUP09 -SA7-QC-101311 SL -005-SA3-SB-4.0-5.0 SL -005-SA3-SB-7.5-8.5 SL -089-SA7-SB-3.5-4.5)	AROCLOR 1016	67	-	72.00-120.00	-	AROCLOR 1016, 1221, 1232	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29026AQ220717A (DUP09 -SA7-QC-101311 SL -005-SA3-SB-4.0-5.0 SL -005-SA3-SB-7.5-8.5 SL -089-SA7-SB-3.5-4.5)	ANTIMONY	134	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
MOISTURE	11.8	10.8	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
FLUORIDE	2.5	2.3	8	50.00	No Qualifiers Applied
Nitrate-NO3	4.3	4.3	0	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
ALUMINUM	14200	13800	3	50.00	No Qualifiers Applied
BORON	1.17	1.17	0	50.00	
CALCIUM	3860	3810	1	50.00	
IRON	22900	22600	1	50.00	
LITHIUM	31.3	28.7	9	50.00	
MAGNESIUM	6880	6610	4	50.00	
MANGANESE	340	320	6	50.00	
PHOSPHORUS	493	447	10	50.00	
POTASSIUM	2680	2440	9	50.00	
SODIUM	134	116	14	50.00	
STRONTIUM	14.3	13.3	7	50.00	
TIN	2.96	2.56	14	50.00	
TITANIUM	1370	1300	5	50.00	
Zirconium	1.02	0.813	23	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag	
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311				
ARSENIC	4.29	4.70	9	50.00	No Qualifiers Applied	
BARIUM	96.4	100	4	50.00		
BERYLLIUM	0.548	0.650	17	50.00		
CADMIUM	0.0810	0.0996	21	50.00		
CHROMIUM	19.6	22.6	14	50.00		
COBALT	6.53	7.69	16	50.00		
COPPER	9.47	10.7	12	50.00		
LEAD	5.14	6.46	23	50.00		
MOLYBDENUM	0.301	0.383	24	50.00		
NICKEL	13.1	14.9	13	50.00		
SELENIUM	0.184	0.191	4	50.00		
SILVER	0.0383	0.0387	1	50.00		
THALLIUM	0.277	0.301	8	50.00		
VANADIUM	38.8	45.1	15	50.00		
ZINC	62.3	68.3	9	50.00		
ANTIMONY	0.153	0.218 U	200	50.00		J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
MERCURY	0.0077	0.111 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
EFH (C15-C20)	0.59	0.63	7	50.00	No Qualifiers Applied
EFH (C21-C30)	2.5	2.3	8	50.00	
EFH (C30-C40)	6.2	6.4	3	50.00	
EFH (C8-C11)	0.58	1.3 U	200	50.00	J(all detects) UJ(all non-detects)
GASOLINE RANGE ORGANICS (C5-C12)	0.3	1.1 U	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
AROCLOR 1254	1.9 U	1.5	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	1.9 U	0.90	200	50.00	
Aroclor 5460	3.7 U	14	200	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
BENZO(A)ANTHRACENE	1.9 U	8.7	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	1.9 U	14	200	50.00	
BENZO(B)FLUORANTHENE	1.9 U	18	200	50.00	
BENZO(G,H,I)PERYLENE	1.9 U	9.0	200	50.00	
BENZO(K)FLUORANTHENE	1.9 U	6.6	200	50.00	
CHRYSENE	1.9 U	10	200	50.00	
DIBENZO(A,H)ANTHRACENE	1.9 U	2.2	200	50.00	
FLUORANTHENE	1.9 U	8.7	200	50.00	
INDENO(1,2,3-CD)PYRENE	1.9 U	8.3	200	50.00	
PHENANTHRENE	1.9 U	1.0	200	50.00	
PYRENE	1.9 U	8.9	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
PH	7.86	7.83	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	BORON	J	0.0068	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00051	0.0050	PQL	mg/L	

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	LEAD	J	0.000089	0.0010	PQL	mg/L	J (all detects)
	ZINC	J	0.0056	0.0150	PQL	mg/L	

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	Diethylphthalate	J	0.11	0.98	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.19	0.98	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA3-SB-4.0-5.0	Nitrate-NO3	J	1.6	1.7	PQL	mg/Kg	J (all detects)
SL-005-SA3-SB-7.5-8.5	Nitrate-NO3	J	1.7	1.8	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	BORON	J	1.17	5.44	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.9	PQL	mg/Kg	
	Zirconium	J	0.813	5.44	PQL	mg/Kg	
SL-005-SA3-SB-4.0-5.0	TIN	J	2.73	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.56	5.48	PQL	mg/Kg	
SL-005-SA3-SB-7.5-8.5	TIN	J	2.60	11.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.06	5.90	PQL	mg/Kg	
SL-089-SA7-SB-3.5-4.5	BORON	J	1.17	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.9	PQL	mg/Kg	
	Zirconium	J	1.02	5.45	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	CADMIUM	J	0.0996	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.191	0.435	PQL	mg/Kg	
	SILVER	J	0.0387	0.109	PQL	mg/Kg	
SL-005-SA3-SB-4.0-5.0	ANTIMONY	J	0.106	0.213	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0489	0.106	PQL	mg/Kg	
	SELENIUM	J	0.0769	0.425	PQL	mg/Kg	
	SILVER	J	0.0647	0.106	PQL	mg/Kg	
SL-005-SA3-SB-7.5-8.5	SILVER	J	0.0206	0.119	PQL	mg/Kg	J (all detects)
SL-089-SA7-SB-3.5-4.5	ANTIMONY	J	0.153	0.225	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0810	0.112	PQL	mg/Kg	
	SELENIUM	J	0.184	0.449	PQL	mg/Kg	
	SILVER	J	0.0383	0.112	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA7-SB-3.5-4.5	MERCURY	J	0.0077	0.107	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	EFH (C15-C20)	J	0.63	1.3	PQL	mg/Kg	J (all detects)
SL-089-SA7-SB-3.5-4.5	EFH (C15-C20)	J	0.59	1.4	PQL	mg/Kg	J (all detects)
	EFH (C8-C11)	J	0.58	1.4	PQL	mg/Kg	
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.3	1.1	PQL	mg/Kg	

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	AROCLOR 1254	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.90	1.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE268

Laboratory: LL

EDD Filename: DE268_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA7-SB-3.5-4.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	PHENANTHRENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
SL-005-SA3-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.77	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.84	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	20	PQL	ug/Kg	
SL-005-SA3-SB-7.5-8.5	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	21	PQL	ug/Kg	

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, B, Ca, Fe, Mg, Mn, P, Ti, Zn) ^{2 RPD out}
VII.	Duplicate Sample Analysis	N	DUP (B, Cd, Hg, Zr) < 5% RL, no qual
VIII.	Laboratory Control Samples (LCS)	A	LCS/D 'T'
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB=5

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SL-005-SA3-SB-4.0-5.0	11		21		31	
2	SL-005-SA3-SB-7.5-8.5	12		22		32	
3	SL-089-SA7-SB-3.5-4.5	13		23		33	
4	DUP09-SA7-QC-101311	14		24		34	
5	EB-SA7-SB-101311	15		25		35	
6	SL-089-SA7-SB-3.5-4.5MS	16		26		36	
7	SL-089-SA7-SB-3.5-4.5MSD	17		27		37	
8	SL-089-SA7-SB-3.5-4.5DUP	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
 Sample Concentration units, unless otherwise noted: mg/Kg

PB/ICB/CCB QUALIFIED SAMPLES
 Soil preparation factor applied: 100x x MS (2x dil), Hg: 167x
 Associated Samples: All Sed 3, 1

Reason: B
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	3						
As			0.40	0.4							
Tl			0.11	0.11							
Hg			0.021	0.04	0.0077						

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.



QUALITY ASSURANCE SUMMARY
 FORM 9
 SERIAL DILUTIONS
 SDG No.: DE268
 Matrix: SOIL

JLS/A

Level (low/med): LOW

Background Lab Sample ID: 6437195BKG Serial Dilution Lab Sample ID: 6437195L
 Batch ID(s): P29008B, P29026A, P29808B
 Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		130045.0200		123577.1500		5		P
Antimony	121	0.6800	B	1.8500	U	100		MS
Arsenic	75	19.1000		19.3450		1		MS
Barium	137	429.5000		481.9000		12	E	MS
Beryllium	9	2.4430		2.9145		19		MS
Boron		10.7300	B	18.0000	U	100		P
Cadmium	111	0.3606	B	1.1000	U	100		MS
Calcium		35420.5600		35391.8500		0		P
Cerium	52	87.3800		108.9500		25	E	MS
Chromium	59	29.0700		32.4500		12	E	MS
Copper	63	42.1700		48.9150		16	E	MS
Iron		210223.8600		208717.8500		1		P
Lead	208	22.9100		26.2600		15	E	MS
Lithium		286.9300		283.3000		1		P
Magnesium		63075.1100		62824.7500		0		P
Manganese		3114.4100		3177.0000		2		P
Molybdenum	98	1.3410		1.2500	U	100		MS
Nickel	60	58.2800		68.2500		17	E	MS
Phosphorus		4524.3300		4231.2500		6		P
Potassium		24335.5900		23453.2500		4		P
Selenium	78	0.8201	B	1.4500	U	100		MS
Silver	107	0.1704	B	0.3550	U	100		MS
Sodium		1217.6100		1197.6000	B	2		P
Strontium		130.8200		131.4500		0		P
Thallium	203	1.2340		1.3500	B	9		MS
Tin		27.1100	B	26.4500	B	2		P
Titanium		12602.0100		13473.2500		7		P
Vanadium	51	172.6000		212.8500		23	E	MS
Zinc	66	277.5000		319.2000		15		MS
Zirconium		9.3300	B	23.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:
 P = ICP Atomic Emission Spectrometer
 MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS: DE268. 36B2
 U= Below MDL
 B= Below LOQ
 FLAGS:
 E = Matrix Effects exist as proven by
 Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE269

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3050B	6010B	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3050B	6020	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3060A	7199	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3550B	8082	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3550B	8270C	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	METHOD	300.0	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	METHOD	314.0	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	METHOD	7471A	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3050B	6010B	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3050B	6020	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3060A	7199	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3550B	8082	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3550B	8270C	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	METHOD	300.0	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	METHOD	314.0	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	METHOD	7471A	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0DUP	P438618D271513B	DUP	METHOD	314.0	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0MSD	P438618M261405	MSD	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0MS	P438618R261332	MS	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0MS	P438618R271536B	MS	METHOD	314.0	III
14-Oct-2011	TB-101411	6438628	TB	3520C	1625C	III
14-Oct-2011	TB-101411	6438629	TB	3546	1625C	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3050B	6010B	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3060A	7199	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3550B	8082	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3550B	8270C	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3550B	8270C SIM	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	METHOD	300.0	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	METHOD	314.0	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	METHOD	7471A	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3050B	6010B	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3050B	6020	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3060A	7199	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3550B	8082	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3550B	8270C	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3550B	8270C SIM	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	METHOD	300.0	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	METHOD	314.0	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	METHOD	7471A	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3050B	6010B	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3050B	6020	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3060A	7199	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3550B	8082	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3550B	8270C	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3550B	8270C SIM	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	METHOD	300.0	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	METHOD	314.0	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	METHOD	7471A	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3050B	6020	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3060A	7199	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3550B	8082	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3550B	8270C	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3550B	8270C SIM	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	METHOD	300.0	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	METHOD	314.0	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	METHOD	7471A	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3050B	6010B	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3050B	6020	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3060A	7199	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3550B	8082	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3550B	8270C	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3550B	8270C SIM	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	METHOD	300.0	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	METHOD	314.0	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	METHOD	7471A	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3050B	6010B	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3050B	6020	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3060A	7199	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3550B	8082	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3550B	8270C	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3550B	8270C SIM	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	METHOD	300.0	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	METHOD	314.0	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Oct-2011	EB-SA3-SB-101411	6438627	EB	3520C	1625C	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3050B	6010B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3050B	6020	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3060A	7199	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3546	1625C	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8015B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8015M	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8082	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8270C	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8270C SIM	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	8330	8330A	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	300.0	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	314.0	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	7471A	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	8015B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	8015M	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	8315A	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-006-SA3-SB-4.0-5.0		Collected: 10/13/2011 3:29:00		Analysis Type: REA3		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2230		12.0	MDL	53.0	PQL	mg/Kg	J	Q
SODIUM	86.7	J	6.31	MDL	106	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA3-SB-4.0-5.0		Collected: 10/13/2011 3:29:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18300		2.79	MDL	21.4	PQL	mg/Kg	J	E
TIN	2.71	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.24	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA3-SB-9.0-10.0		Collected: 10/13/2011 2:47:00		Analysis Type: REA3		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1560		12.4	MDL	55.0	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA3-SB-9.0-10.0		Collected: 10/13/2011 2:47:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18700		2.90	MDL	22.2	PQL	mg/Kg	J	E
TIN	2.92	J	0.355	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.23	J	0.511	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5DS-SB-4.0-5.0		Collected: 10/14/2011 11:38:00		Analysis Type: REA		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	33700		5.81	MDL	44.5	PQL	mg/Kg	J	E

Sample ID: SL-036-SA5DS-SB-4.0-5.0		Collected: 10/14/2011 11:38:00		Analysis Type: REA3		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3350		12.7	MDL	56.2	PQL	mg/Kg	J	Q

Sample ID: SL-036-SA5DS-SB-4.0-5.0		Collected: 10/14/2011 11:38:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.64	J	0.356	MDL	11.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/30/2012 8:10:02 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-036-SA5DS-SB-9.0-10.0			Collected: 10/14/2011 11:34:00			Analysis Type: REA			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
IRON	32600		5.78	MDL	44.3	PQL	mg/Kg	J	E	

Sample ID: SL-036-SA5DS-SB-9.0-10.0			Collected: 10/14/2011 11:34:00			Analysis Type: REA3			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
POTASSIUM	3050		12.7	MDL	56.4	PQL	mg/Kg	J	Q	

Sample ID: SL-036-SA5DS-SB-9.0-10.0			Collected: 10/14/2011 11:34:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
TIN	2.81	J	0.354	MDL	11.1	PQL	mg/Kg	U	B	

Sample ID: SL-037-SA5DS-SB-4.0-5.0			Collected: 10/14/2011 9:47:00			Analysis Type: REA2			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
IRON	35200		5.95	MDL	45.6	PQL	mg/Kg	J	E	

Sample ID: SL-037-SA5DS-SB-4.0-5.0			Collected: 10/14/2011 9:47:00			Analysis Type: REA3			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
POTASSIUM	3700		12.7	MDL	56.4	PQL	mg/Kg	J	Q	

Sample ID: SL-037-SA5DS-SB-4.0-5.0			Collected: 10/14/2011 9:47:00			Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
TIN	2.87	J	0.365	MDL	11.4	PQL	mg/Kg	U	B	
Zirconium	4.87	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z	

Sample ID: SL-037-SA5DS-SB-9.0-10.0			Collected: 10/14/2011 9:05:00			Analysis Type: REA2			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
IRON	40800		5.99	MDL	45.9	PQL	mg/Kg	J	E	

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/30/2012 8:10:02 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6010B	Matrix:	SO						

Sample ID: SL-037-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 9:05:00 Analysis Type: REA3 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4230		13.0	MDL	57.4	PQL	mg/Kg	J	Q

Sample ID: SL-037-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 9:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.17	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.87	J	0.528	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:00:00 Analysis Type: REA3 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3760		12.2	MDL	54.0	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	27200		2.79	MDL	21.4	PQL	mg/Kg	J	E
TIN	2.50	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	4.26	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 10:27:00 Analysis Type: REA3 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2800		11.8	MDL	52.4	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 10:27:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	27100		2.79	MDL	21.4	PQL	mg/Kg	J	E
TIN	2.73	J	0.342	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: REA3 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1980		11.5	MDL	51.1	PQL	mg/Kg	J	Q
SODIUM	73.0	J	6.08	MDL	102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	21200		2.61	MDL	20.0	PQL	mg/Kg	J	E
TIN	2.45	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	0.552	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-006-SA3-SB-4.0-5.0 Collected: 10/13/2011 3:29:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.131	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA3-SB-4.0-5.0 Collected: 10/13/2011 3:29:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	74.4		0.112	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-006-SA3-SB-4.0-5.0 Collected: 10/13/2011 3:29:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0784	U	0.0784	MDL	0.212	PQL	mg/Kg	UJ	Q
CADMIUM	0.0492	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	12.6		0.127	MDL	0.424	PQL	mg/Kg	J	A
COBALT	5.35		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	4.36		0.0848	MDL	0.424	PQL	mg/Kg	J	A
LEAD	5.91		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	7.96		0.106	MDL	0.424	PQL	mg/Kg	J	A
SILVER	0.0498	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	29.0		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, A

Sample ID: SL-006-SA3-SB-9.0-10.0 Collected: 10/13/2011 2:47:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0650	MDL	0.449	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-006-SA3-SB-9.0-10.0 Collected: 10/13/2011 2:47:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	74.3		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-006-SA3-SB-9.0-10.0 Collected: 10/13/2011 2:47:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.161	J	0.0830	MDL	0.224	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.3		0.135	MDL	0.449	PQL	mg/Kg	J	A
COBALT	5.76		0.0224	MDL	0.112	PQL	mg/Kg	J	A
COPPER	6.28		0.0897	MDL	0.449	PQL	mg/Kg	J	A
LEAD	7.77		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	7.43		0.112	MDL	0.449	PQL	mg/Kg	J	A
SILVER	0.0453	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	38.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, A

Sample ID: SL-036-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:38:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:38:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-036-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:38:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.276		0.0831	MDL	0.225	PQL	mg/Kg	J	Q
CADMIUM	0.0551	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	28.3		0.135	MDL	0.449	PQL	mg/Kg	J	A
COBALT	13.0		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	32.6		0.0898	MDL	0.449	PQL	mg/Kg	J	A
LEAD	17.3		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	20.8		0.112	MDL	0.449	PQL	mg/Kg	J	A
VANADIUM	74.7		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-036-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 11:34:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.175	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 11:34:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.120	MDL	0.451	PQL	mg/Kg	J	A

Sample ID: SL-036-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 11:34:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.201	J	0.0835	MDL	0.226	PQL	mg/Kg	J	Z, Q
CHROMIUM	36.9		0.135	MDL	0.451	PQL	mg/Kg	J	A
COBALT	13.4		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	16.7		0.0903	MDL	0.451	PQL	mg/Kg	J	A
LEAD	10.6		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	20.5		0.113	MDL	0.451	PQL	mg/Kg	J	A
SILVER	0.0257	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	77.1		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, A

Sample ID: SL-037-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 9:47:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.142	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 9:47:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.120	MDL	0.451	PQL	mg/Kg	J	A

Sample ID: SL-037-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 9:47:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.308		0.0835	MDL	0.226	PQL	mg/Kg	J	Q
CHROMIUM	38.9		0.135	MDL	0.451	PQL	mg/Kg	J	A
COBALT	12.8		0.0226	MDL	0.113	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-037-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 9:47:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	17.2		0.0903	MDL	0.451	PQL	mg/Kg	J	A
LEAD	11.3		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	23.4		0.113	MDL	0.451	PQL	mg/Kg	J	A
SILVER	0.0479	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	77.7		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, A

Sample ID: SL-037-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 9:05:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0672	MDL	0.464	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 9:05:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	199		0.123	MDL	0.464	PQL	mg/Kg	J	A

Sample ID: SL-037-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 9:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.378		0.0858	MDL	0.232	PQL	mg/Kg	J	Q
CADMIUM	0.0708	J	0.0510	MDL	0.116	PQL	mg/Kg	J	Z
CHROMIUM	47.6		0.139	MDL	0.464	PQL	mg/Kg	J	A
COBALT	17.6		0.0232	MDL	0.116	PQL	mg/Kg	J	A
COPPER	25.8		0.0927	MDL	0.464	PQL	mg/Kg	J	A
LEAD	13.9		0.0118	MDL	0.232	PQL	mg/Kg	J	Q, A
NICKEL	30.5		0.116	MDL	0.464	PQL	mg/Kg	J	A
SILVER	0.0232	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z
VANADIUM	96.5		0.0255	MDL	0.116	PQL	mg/Kg	J	Q, A

Sample ID: SL-038-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.199	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-038-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:00:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	116		0.116	MDL	0.437	PQL	mg/Kg	J	A

Sample ID: SL-038-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z, Q
CHROMIUM	33.6		0.131	MDL	0.437	PQL	mg/Kg	J	A
COBALT	10.6		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	13.1		0.0873	MDL	0.437	PQL	mg/Kg	J	A
LEAD	8.01		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, A
NICKEL	17.9		0.109	MDL	0.437	PQL	mg/Kg	J	A
SILVER	0.0220	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	65.0		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, A

Sample ID: SL-038-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 10:27:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0607	MDL	0.419	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 10:27:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	117		0.111	MDL	0.419	PQL	mg/Kg	J	A

Sample ID: SL-038-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 10:27:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.221		0.0775	MDL	0.209	PQL	mg/Kg	J	Q
CHROMIUM	40.4		0.126	MDL	0.419	PQL	mg/Kg	J	A
COBALT	10.0		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	10.6		0.0838	MDL	0.419	PQL	mg/Kg	J	A
LEAD	8.06		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, A
NICKEL	18.8		0.105	MDL	0.419	PQL	mg/Kg	J	A
SILVER	0.0413	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	72.6		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.201	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	88.2		0.106	MDL	0.401	PQL	mg/Kg	J	A

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.117	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0866	J	0.0441	MDL	0.100	PQL	mg/Kg	J	Z
CHROMIUM	22.4		0.120	MDL	0.401	PQL	mg/Kg	J	A
COBALT	6.94		0.0200	MDL	0.100	PQL	mg/Kg	J	A
COPPER	10.1		0.0801	MDL	0.401	PQL	mg/Kg	J	A
LEAD	5.70		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, A
NICKEL	16.0		0.100	MDL	0.401	PQL	mg/Kg	J	A
SILVER	0.0314	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z
VANADIUM	41.3		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, A

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-006-SA3-SB-4.0-5.0 Collected: 10/13/2011 3:29:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 9:47:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7199 **Matrix: SO**

Sample ID: SL-038-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 10:27:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A **Matrix: SO**

Sample ID: SL-036-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:38:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0194	J	0.0079	MDL	0.112	PQL	mg/Kg	U	B

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0107	J	0.0070	MDL	0.0992	PQL	mg/Kg	U	B

Method Category: SVOA
Method: 1625C **Matrix: AQ**

Sample ID: EB-SA3-SB-101411 Collected: 10/14/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.20		0.492	MDL	0.984	PQL	ng/L	U	B, T

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: TB-101411 Collected: 10/14/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.99		0.533	MDL	1.07	PQL	ng/L	U	B

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-006-SA3-SB-4.0-5.0 Collected: 10/13/2011 3:29:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: SL-006-SA3-SB-9.0-10.0 Collected: 10/13/2011 2:47:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: SL-036-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 11:34:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	L, S
AROCLOR 1221	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S, L
AROCLOR 1232	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S, L
AROCLOR 1242	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.45	U	0.45	MDL	2.0	PQL	ug/Kg	UJ	S
Aroclor 1262	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
Aroclor 1268	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	S
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	S
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/30/2012 8:10:03 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.80	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-037-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 9:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENOL	17	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-036-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:38:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.3	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-4.0-5.0 Collected: 10/14/2011 11:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.1	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 Collected: 10/14/2011 10:27:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.5	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/30/2012 8:10:03 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.77	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.97	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: VOA
Method: 8015B **Matrix:** SO

Sample ID: SL-164-SA7-SB-0.5-1.5 Collected: 10/14/2011 2:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	100	U	100	MDL	510	PQL	ug/Kg	UJ	S
Isopropanol	100	U	100	MDL	510	PQL	ug/Kg	UJ	S
METHANOL	100	U	100	MDL	510	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/30/2012 8:10:03 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: PrepDE269_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Matrix Spike Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Upper Estimation
T	Trip Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/30/2012 8:10:03 AM

ADR version 1.4.0.111

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE269

Method Blank Outlier Report

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: DE269_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA29B261239	11/1/2011 12:39:00 PM	N-NITROSODIMETHYLAMINE	1.33 ng/L	EB-SA3-SB-101411 TB-101411

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101411(RES)	N-NITROSODIMETHYLAMINE	1.20 ng/L	1.20U ng/L
TB-101411(RES)	N-NITROSODIMETHYLAMINE	3.99 ng/L	3.99U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29008BB220208	10/25/2011 2:08:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	6.41 mg/Kg 1.73 mg/Kg 0.0510 mg/Kg 1.44 mg/Kg	SL-006-SA3-SB-4.0-5.0 SL-006-SA3-SB-9.0-10.0 SL-036-SA5DS-SB-4.0-5.0 SL-036-SA5DS-SB-9.0-10.0 SL-037-SA5DS-SB-4.0-5.0 SL-037-SA5DS-SB-9.0-10.0 SL-038-SA5DS-SB-4.0-5.0 SL-038-SA5DS-SB-9.0-10.0 SL-164-SA7-SB-0.5-1.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-006-SA3-SB-4.0-5.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-006-SA3-SB-9.0-10.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	TIN	3.17 mg/Kg	3.17U mg/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-164-SA7-SB-0.5-1.5(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/25/2012 10:16:25 AM

ADR version 1.4.0.111

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Trip Blank Outlier Report

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: DE269_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101411(RES)	10/14/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	3.99 ng/L	EB-SA3-SB-101411 SL-006-SA3-SB-4.0-5.0 SL-006-SA3-SB-9.0-10.0 SL-036-SA5DS-SB-4.0-5.0 SL-036-SA5DS-SB-9.0-10.0 SL-037-SA5DS-SB-4.0-5.0 SL-037-SA5DS-SB-9.0-10.0 SL-038-SA5DS-SB-4.0-5.0 SL-038-SA5DS-SB-9.0-10.0 SL-164-SA7-SB-0.5-1.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101411(RES)	N-NITROSODIMETHYLAMINE	1.20 ng/L	1.20U ng/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: DE269_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-006-SA3-SB-4.0-5.0MSD (SL-006-SA3-SB-4.0-5.0)	BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	- - -	- - -	33.00-141.00 22.00-133.00 21.00-143.00	53 (30.00) 41 (30.00) 47 (30.00)	BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	J (all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: DE269_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12915AQ240707A (SL-006-SA3-SB-4.0-5.0 SL-006-SA3-SB-9.0-10.0 SL-036-SA5DS-SB-9.0-10.0)	AROCLOR 1016	67	-	72.00-120.00	-	AROCLOR 1016, 1221, 1232	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29026AQ220717A (SL-006-SA3-SB-4.0-5.0 SL-006-SA3-SB-9.0-10.0 SL-036-SA5DS-SB-4.0-5.0 SL-036-SA5DS-SB-9.0-10.0 SL-037-SA5DS-SB-4.0-5.0 SL-037-SA5DS-SB-9.0-10.0 SL-038-SA5DS-SB-4.0-5.0 SL-038-SA5DS-SB-9.0-10.0 SL-164-SA7-SB-0.5-1.5)	ANTIMONY	134	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: DE269_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015B

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-164-SA7-SB-0.5-1.5	n-Triacontane-d62	198	19.00-152.00	All Target Analytes	J(all detects)
SL-164-SA7-SB-0.5-1.5	ACETONE	40	42.00-138.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-036-SA5DS-SB-9.0-10.0	TETRACHLORO-M-XYLENE	52	53.00-139.00	All Target Analytes	J (all detects) UJ (all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: DE269_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	SODIUM	J	86.7	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	10.7	PQL	mg/Kg	
	Zirconium	J	1.24	5.35	PQL	mg/Kg	
SL-006-SA3-SB-9.0-10.0	TIN	J	2.92	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.23	5.55	PQL	mg/Kg	
SL-036-SA5DS-SB-4.0-5.0	TIN	J	2.64	11.1	PQL	mg/Kg	J (all detects)
SL-036-SA5DS-SB-9.0-10.0	TIN	J	2.81	11.1	PQL	mg/Kg	J (all detects)
SL-037-SA5DS-SB-4.0-5.0	TIN	J	2.87	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.87	5.70	PQL	mg/Kg	
SL-037-SA5DS-SB-9.0-10.0	TIN	J	3.17	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.87	5.74	PQL	mg/Kg	
SL-038-SA5DS-SB-4.0-5.0	TIN	J	2.50	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.26	5.35	PQL	mg/Kg	
SL-038-SA5DS-SB-9.0-10.0	TIN	J	2.73	10.7	PQL	mg/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	SODIUM	J	73.0	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	10.0	PQL	mg/Kg	
	Zirconium	J	0.552	5.01	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	CADMIUM	J	0.0492	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.131	0.424	PQL	mg/Kg	
	SILVER	J	0.0498	0.106	PQL	mg/Kg	
SL-006-SA3-SB-9.0-10.0	ANTIMONY	J	0.161	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.114	0.449	PQL	mg/Kg	
	SILVER	J	0.0453	0.112	PQL	mg/Kg	
SL-036-SA5DS-SB-4.0-5.0	CADMIUM	J	0.0551	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.449	PQL	mg/Kg	
SL-036-SA5DS-SB-9.0-10.0	ANTIMONY	J	0.201	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.175	0.451	PQL	mg/Kg	
	SILVER	J	0.0257	0.113	PQL	mg/Kg	
SL-037-SA5DS-SB-4.0-5.0	SELENIUM	J	0.142	0.451	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0479	0.113	PQL	mg/Kg	
SL-037-SA5DS-SB-9.0-10.0	CADMIUM	J	0.0708	0.116	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.172	0.464	PQL	mg/Kg	
	SILVER	J	0.0232	0.116	PQL	mg/Kg	
SL-038-SA5DS-SB-4.0-5.0	ANTIMONY	J	0.188	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.199	0.437	PQL	mg/Kg	
	SILVER	J	0.0220	0.109	PQL	mg/Kg	
SL-038-SA5DS-SB-9.0-10.0	SELENIUM	J	0.122	0.419	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0413	0.105	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: DE269_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA7-SB-0.5-1.5	ANTIMONY	J	0.117	0.200	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0866	0.100	PQL	mg/Kg	
	SELENIUM	J	0.201	0.401	PQL	mg/Kg	
	SILVER	J	0.0314	0.100	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.77	1.1	PQL	mg/Kg	J (all detects)
SL-037-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-038-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-038-SA5DS-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	HEXAVALENT CHROMIUM	J	0.27	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5DS-SB-4.0-5.0	MERCURY	J	0.0194	0.112	PQL	mg/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	MERCURY	J	0.0107	0.0992	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA7-SB-0.5-1.5	AROCLOR 1254	J	0.80	1.7	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DS-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	390	PQL	ug/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	PHENOL	J	17	170	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE269

Laboratory: LL

EDD Filename: DE269_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5DS-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.3	20	PQL	ug/Kg	J (all detects)
SL-038-SA5DS-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	19	PQL	ug/Kg	J (all detects)
SL-038-SA5DS-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	19	PQL	ug/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	BENZO(A)PYRENE	J	0.77	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.97	1.7	PQL	ug/Kg	
	PYRENE	J	1.6	1.7	PQL	ug/Kg	

LDC #: 26979E4

VALIDATION COMPLETENESS WORKSHEET

Date: 1-20-12

SDG #: DE269

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: OL2nd Reviewer: L

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (from SDG: DE 268)
VII.	Duplicate Sample Analysis	N	DP ↓
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	from DE 268
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	-	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinstate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-006-SA3-SB-4.0-5.0	11		21		31	
2	SL-006-SA3-SB-9.0-10.0	12		22		32	
3	SL-036-SA5DS-SB-4.0-5.0	13		23		33	
4	SL-036-SA5DS-SB-9.0-10.0	14		24		34	
5	SL-037-SA5DS-SB-4.0-5.0	15		25		35	
6	SL-037-SA5DS-SB-9.0-10.0	16		26		36	
7	SL-038-SA5DS-SB-4.0-5.0	17		27		37	
8	SL-038-SA5DS-SB-9.0-10.0	18		28		38	
9	SL-164-SA7-SB-0.5-1.5	19		29		39	
10		20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Soil preparation factor applied: 100x x MS (2x dil), Hg: 167x
Associated Samples: All

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: mg/Kg

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	3	9					
Tl			0.11	0.11							
Hg			0.021	0.04	0.019	0.011					

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE270

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Oct-2011	TB-101711	6439932	TB	3520C	1625C	III
17-Oct-2011	TB-101711	6439933	TB	3546	1625C	III
17-Oct-2011	TB-101711	6439934	TB	5030B	8015M	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3050B	6010B	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3050B	6020	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3060A	7199	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3550B	8082	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3550B	8270C	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3550B	8270C SIM	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	METHOD	300.0	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	METHOD	314.0	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	METHOD	7471A	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3050B	6010B	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3050B	6020	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3060A	7199	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3550B	8082	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3550B	8270C	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3550B	8270C SIM	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	METHOD	300.0	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	METHOD	314.0	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	METHOD	7471A	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3050B	6010B	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3050B	6020	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3060A	7199	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3550B	8082	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3550B	8270C SIM	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	METHOD	300.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	METHOD	314.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	METHOD	7471A	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3050B	6010B	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3050B	6020	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3060A	7199	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3550B	8082	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3550B	8270C	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3550B	8270C SIM	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	METHOD	300.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	METHOD	314.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	METHOD	7471A	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	3050B	6010B	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	3050B	6020	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	3060A	7199	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	METHOD	300.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	METHOD	314.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	METHOD	7471A	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0RL	6439927	N	3550B	8082	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	3050B	6010B	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	3050B	6020	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	3550B	8082	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	3550B	8270C	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	3550B	8270C SIM	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	Gen Prep	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	METHOD	300.0	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	METHOD	314.0	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	METHOD	7471A	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3050B	6010B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3050B	6020	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3550B	8015B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3550B	8015M	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3550B	8082	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3550B	8270C	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3550B	8270C SIM	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	5035	8015M	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	Gen Prep	7199	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	300.0	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	314.0	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	7471A	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	8015B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	8015M	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	9012B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0MSD	P439920M322230A	MSD	METHOD	8015B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0MS	P439920R322214A	MS	METHOD	8015B	III
17-Oct-2011	EB-SA5DS-SB-101711	6439931	EB	3520C	1625C	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3050B	6010B	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3050B	6020	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3060A	7199	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3550B	8082	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3550B	8270C SIM	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	METHOD	300.0	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	METHOD	314.0	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	METHOD	6850	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	METHOD	7471A	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0MS	P439929R241907A	MS	METHOD	6850	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 300.0 **Matrix:** SO

Sample ID: DUP03-SA5DS-QC-101711 Collected: 10/17/2011 10:44:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.4		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA5DS-SB-2.0-3.0 Collected: 10/17/2011 11:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5DS-SB-4.0-5.0 Collected: 10/17/2011 10:53:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5DS-SB-9.0-10.0 Collected: 10/17/2011 9:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-039-SA5DS-SB-3.0-4.0 Collected: 10/17/2011 2:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-139-SA7-SB-2.0-3.0 Collected: 10/17/2011 12:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: DUP03-SA5DS-QC-101711 Collected: 10/17/2011 10:44:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.65	J	0.408	MDL	5.67	PQL	mg/Kg	J	Z
CALCIUM	14900		2.84	MDL	22.7	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP03-SA5DS-QC-101711 Collected: 10/17/2011 10:44:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	295		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.70	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	4.85	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA5DS-SB-2.0-3.0 Collected: 10/17/2011 11:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.70	J	0.403	MDL	5.60	PQL	mg/Kg	J	Z
CALCIUM	19600		2.80	MDL	22.4	PQL	mg/Kg	J	E
PHOSPHORUS	347		0.392	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.82	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	5.18	J	0.515	MDL	5.60	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SB-4.0-5.0 Collected: 10/17/2011 10:53:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.91	J	0.410	MDL	5.69	PQL	mg/Kg	J	Z
CALCIUM	9770		2.85	MDL	22.8	PQL	mg/Kg	J	E
PHOSPHORUS	258		0.399	MDL	11.4	PQL	mg/Kg	J	Q
TIN	2.76	J	0.364	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	5.12	J	0.524	MDL	5.69	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SB-9.0-10.0 Collected: 10/17/2011 9:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.84	J	0.396	MDL	5.50	PQL	mg/Kg	J	Z
CALCIUM	8610		2.75	MDL	22.0	PQL	mg/Kg	J	E
PHOSPHORUS	646		0.385	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.59	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.89	J	0.506	MDL	5.50	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DS-SB-3.0-4.0 Collected: 10/17/2011 2:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.03	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-039-SA5DS-SB-3.0-4.0 Collected: 10/17/2011 2:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	25000		2.63	MDL	21.0	PQL	mg/Kg	J	E
PHOSPHORUS	469		0.368	MDL	10.5	PQL	mg/Kg	J	Q
TIN	2.55	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	4.05	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA7-SB-2.0-3.0 Collected: 10/17/2011 12:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2770		2.55	MDL	20.4	PQL	mg/Kg	J	E
PHOSPHORUS	251		0.357	MDL	10.2	PQL	mg/Kg	J	Q
SODIUM	93.2	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	2.66	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.47	J	0.470	MDL	5.10	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: DUP03-SA5DS-QC-101711 Collected: 10/17/2011 10:44:00 Analysis Type: REA2 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.163	U	0.163	MDL	1.12	PQL	mg/Kg	UJ	FD

Sample ID: DUP03-SA5DS-QC-101711 Collected: 10/17/2011 10:44:00 Analysis Type: REA3 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.262	J	0.140	MDL	0.281	PQL	mg/Kg	J	Z

Sample ID: DUP03-SA5DS-QC-101711 Collected: 10/17/2011 10:44:00 Analysis Type: RES Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.208	U	0.208	MDL	0.562	PQL	mg/Kg	UJ	Q, FD
ARSENIC	6.43		0.225	MDL	1.12	PQL	mg/Kg	J	Q, E
CADMIUM	0.154	J	0.124	MDL	0.281	PQL	mg/Kg	J	Z
LEAD	9.38		0.0286	MDL	0.562	PQL	mg/Kg	J	Q
NICKEL	21.8		0.281	MDL	1.12	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP03-SA5DS-QC-101711			Collected: 10/17/2011 10:44:00			Analysis Type: RES		Dilution: 5	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0399	U	0.0399	MDL	0.281	PQL	mg/Kg	UJ	FD
VANADIUM	81.3		0.0618	MDL	0.281	PQL	mg/Kg	J	E

Sample ID: SL-033-SA5DS-SB-2.0-3.0			Collected: 10/17/2011 11:58:00			Analysis Type: REA2		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.257	J	0.0649	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA5DS-SB-2.0-3.0			Collected: 10/17/2011 11:58:00			Analysis Type: RES		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0828	MDL	0.224	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.25		0.0895	MDL	0.448	PQL	mg/Kg	J	Q, E
LEAD	8.15		0.0114	MDL	0.224	PQL	mg/Kg	J	Q
NICKEL	19.3		0.112	MDL	0.448	PQL	mg/Kg	J	Q, E
SILVER	0.0183	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	68.4		0.0246	MDL	0.112	PQL	mg/Kg	J	E

Sample ID: SL-034-SA5DS-SB-4.0-5.0			Collected: 10/17/2011 10:53:00			Analysis Type: REA2		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.220	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z, FD

Sample ID: SL-034-SA5DS-SB-4.0-5.0			Collected: 10/17/2011 10:53:00			Analysis Type: RES		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.126	J	0.0826	MDL	0.223	PQL	mg/Kg	UJ	Q, FD, B
ARSENIC	6.85		0.0893	MDL	0.447	PQL	mg/Kg	J	Q, E
LEAD	11.0		0.0114	MDL	0.223	PQL	mg/Kg	J	Q
NICKEL	26.2		0.112	MDL	0.447	PQL	mg/Kg	J	Q, E
SILVER	0.0230	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, FD
VANADIUM	99.3		0.0246	MDL	0.112	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020	Matrix:		SO						

Sample ID: SL-034-SA5DS-SB-9.0-10.0	Collected: 10/17/2011 9:58:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.165	J	0.0638	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SB-9.0-10.0	Collected: 10/17/2011 9:58:00	Analysis Type: REA3	Dilution: 5						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.239	J	0.138	MDL	0.275	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SB-9.0-10.0	Collected: 10/17/2011 9:58:00	Analysis Type: RES	Dilution: 5						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.204	U	0.204	MDL	0.550	PQL	mg/Kg	UJ	Q
ARSENIC	7.79		0.220	MDL	1.10	PQL	mg/Kg	J	Q, E
CADMIUM	0.136	J	0.121	MDL	0.275	PQL	mg/Kg	J	Z
LEAD	12.6		0.0281	MDL	0.550	PQL	mg/Kg	J	Q
NICKEL	25.5		0.275	MDL	1.10	PQL	mg/Kg	J	Q, E
VANADIUM	87.2		0.0605	MDL	0.275	PQL	mg/Kg	J	E

Sample ID: SL-039-SA5DS-SB-3.0-4.0	Collected: 10/17/2011 2:35:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.294	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DS-SB-3.0-4.0	Collected: 10/17/2011 2:35:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.139	J	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.97		0.0834	MDL	0.417	PQL	mg/Kg	J	Q, E
LEAD	10.1		0.0106	MDL	0.208	PQL	mg/Kg	J	Q
NICKEL	24.3		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	0.0229	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	78.6		0.0229	MDL	0.104	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 Matrix: SO

Sample ID: SL-139-SA7-SB-2.0-3.0 Collected: 10/17/2011 12:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA7-SB-2.0-3.0 Collected: 10/17/2011 12:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0755	U	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q
ARSENIC	4.96		0.0817	MDL	0.408	PQL	mg/Kg	J	Q, E
LEAD	7.19		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
NICKEL	12.0		0.102	MDL	0.408	PQL	mg/Kg	J	Q, E
SILVER	0.0442	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	41.9		0.0225	MDL	0.102	PQL	mg/Kg	J	E

Method Category: METALS
Method: 7199 Matrix: SO

Sample ID: SL-034-SA5DS-SB-9.0-10.0 Collected: 10/17/2011 9:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA7-SB-2.0-3.0 Collected: 10/17/2011 12:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A Matrix: SO

Sample ID: SL-139-SA7-SB-2.0-3.0 Collected: 10/17/2011 12:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0139	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 1625C **Matrix: AQ**

Sample ID: EB-SA5DS-SB-101711 Collected: 10/17/2011 2:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.54		0.530	MDL	1.06	PQL	ng/L	U	B

Method Category: SVOA
Method: 8015M **Matrix: SO**

Sample ID: SL-139-SA7-SB-2.0-3.0 Collected: 10/17/2011 12:05:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.65	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.44	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 8082 **Matrix: SO**

Sample ID: SL-139-SA7-SB-2.0-3.0 Collected: 10/17/2011 12:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.64	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA
Method: 8270C **Matrix: SO**

Sample ID: SL-034-SA5DS-SB-4.0-5.0 Collected: 10/17/2011 10:53:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	Q

Sample ID: SL-139-SA7-SB-2.0-3.0 Collected: 10/17/2011 12:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-CHLORONAPHTHALENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
FD	Field Duplicate Precision
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE270

Method Blank Outlier Report

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA29B261354	11/1/2011 1:54:00 PM	N-NITROSODIMETHYLAMINE	0.718 ng/L	EB-SA5DS-SB-101711 TB-101711

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DS-SB-101711(RES)	N-NITROSODIMETHYLAMINE	3.54 ng/L	3.54U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29108EB220655	10/26/2011 6:55:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	8.59 mg/Kg 1.21 mg/Kg 0.0330 mg/Kg 1.48 mg/Kg	DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP03-SA5DS-QC-101711(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-139-SA7-SB-2.0-3.0(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29126BB220615A	10/20/2011 6:15:00 AM	LEAD VANADIUM	0.0154 mg/Kg 0.307 mg/Kg	DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0
P29126BB220615D	10/20/2011 6:15:00 AM	BARIUM	0.112 mg/Kg	DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	VANADIUM ZINC	-13 -47	- 32	75.00-125.00 75.00-125.00	- -	VANADIUM ZINC	No Qual, >4x
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	ANTIMONY ARSENIC CHROMIUM LEAD NICKEL	40 64 48 48 69	41 - - - -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ANTIMONY ARSENIC CHROMIUM LEAD NICKEL	J(all detects) UJ(all non-detects) Cr, No Qual, >4x
SL-034-SA5DS-SB-4.0-5.0MS (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	BARIUM	-84	-	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	ALUMINUM IRON MAGNESIUM PHOSPHORUS	2292 181 - -	3042 299 126 156	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MAGNESIUM PHOSPHORUS	J(all detects) Al, Fe, Mg, No Qual, >4x
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	CALCIUM	792	-96	75.00-125.00	35 (20.00)	CALCIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	MANGANESE	59	43	75.00-125.00	-	MANGANESE	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SB-4.0-5.0MSD (SL-034-SA5DS-SB-4.0-5.0)	2-CHLORONAPHTHALENE 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID PENTACHLOROPHENOL	- - - -	- - - -	50.00-141.00 11.00-126.00 10.00-173.00 28.00-127.00	34 (30.00) 112 (30.00) 75 (30.00) 32 (30.00)	2-CHLORONAPHTHALENE 4,6-DINITRO-2-METHYLPHEN BENZOIC ACID PENTACHLOROPHENOL	J(all detects)
SL-034-SA5DS-SB-4.0-5.0MSD (SL-034-SA5DS-SB-4.0-5.0)	2,4-DINITROPHENOL	-	12	20.00-143.00	93 (30.00)	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SB-4.0-5.0MS (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	FLUORIDE	62	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	TITANIUM	367	432	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-034-SA5DS-SB-4.0-5.0DUP	ARSENIC	22	20.00	
(DUP03-SA5DS-QC-101711	MOLYBDENUM	48	20.00	J (all detects)
SL -033-SA5DS-SB-2.0-3.0	NICKEL	23	20.00	UJ (all non-detects)
SL -034-SA5DS-SB-4.0-5.0	SELENIUM	42	20.00	
SL -034-SA5DS-SB-9.0-10.0	SILVER	32	20.00	Mo, Se, Ag, Tl,
SL -039-SA5DS-SB-3.0-4.0	THALLIUM	21	20.00	No Qual,
SL -139-SA7-SB-2.0-3.0)	VANADIUM	25	20.00	OK by Difference

Field Duplicate RPD Report

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270 v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
MOISTURE	12.2	12.7	4		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
FLUORIDE	4.9	5.4	10	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
ALUMINIUM	34200	34700	1	50.00	No Qualifiers Applied
BORON	4.91	4.65	5	50.00	
CALCIUM	9770	14900	42	50.00	
IRON	36000	36000	0	50.00	
LITHIUM	31.2	31.7	2	50.00	
MAGNESIUM	8730	8640	1	50.00	
MANGANESE	367	327	12	50.00	
PHOSPHORUS	258	295	13	50.00	
POTASSIUM	4010	3840	4	50.00	
SODIUM	132	135	2	50.00	
STRONTIUM	47.1	49.0	4	50.00	
TIN	2.76	2.70	2	50.00	
TITANIUM	1820	1820	0	50.00	
Zirconium	5.12	4.85	5	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag	
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711				
ARSENIC	6.85	6.43	6	50.00	No Qualifiers Applied	
BARIUM	162	133	20	50.00		
BERYLLIUM	0.879	0.852	3	50.00		
CADMIUM	0.162	0.154	5	50.00		
CHROMIUM	48.2	40.0	19	50.00		
COBALT	15.5	12.7	20	50.00		
COPPER	21.3	18.3	15	50.00		
LEAD	11.0	9.38	16	50.00		
MOLYBDENUM	0.326	0.262	22	50.00		
NICKEL	26.2	21.8	18	50.00		
THALLIUM	0.441	0.290	41	50.00		
VANADIUM	99.3	81.3	20	50.00		
ZINC	91.9	77.6	17	50.00		
ANTIMONY	0.126	0.562 U	200	50.00		J(all detects) UJ(all non-detects)
SELENIUM	0.220	1.12 U	200	50.00		
SILVER	0.0230	0.281 U	200	50.00		

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
PH	8.26	8.50	3	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5DS-QC-101711	BORON	J	4.65	5.67	PQL	mg/Kg	J (all detects)
	TIN	J	2.70	11.3	PQL	mg/Kg	
	Zirconium	J	4.85	5.67	PQL	mg/Kg	
SL-033-SA5DS-SB-2.0-3.0	BORON	J	3.70	5.60	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	11.2	PQL	mg/Kg	
	Zirconium	J	5.18	5.60	PQL	mg/Kg	
SL-034-SA5DS-SB-4.0-5.0	BORON	J	4.91	5.69	PQL	mg/Kg	J (all detects)
	TIN	J	2.76	11.4	PQL	mg/Kg	
	Zirconium	J	5.12	5.69	PQL	mg/Kg	
SL-034-SA5DS-SB-9.0-10.0	BORON	J	3.84	5.50	PQL	mg/Kg	J (all detects)
	TIN	J	2.59	11.0	PQL	mg/Kg	
	Zirconium	J	4.89	5.50	PQL	mg/Kg	
SL-039-SA5DS-SB-3.0-4.0	BORON	J	4.03	5.26	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	10.5	PQL	mg/Kg	
	Zirconium	J	4.05	5.26	PQL	mg/Kg	
SL-139-SA7-SB-2.0-3.0	SODIUM	J	93.2	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.66	10.2	PQL	mg/Kg	
	Zirconium	J	1.47	5.10	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5DS-QC-101711	CADMIUM	J	0.154	0.281	PQL	mg/Kg	J (all detects)
	MOLYBDENUM	J	0.262	0.281	PQL	mg/Kg	
SL-033-SA5DS-SB-2.0-3.0	ANTIMONY	J	0.104	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.257	0.448	PQL	mg/Kg	
	SILVER	J	0.0183	0.112	PQL	mg/Kg	
SL-034-SA5DS-SB-4.0-5.0	ANTIMONY	J	0.126	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.220	0.447	PQL	mg/Kg	
	SILVER	J	0.0230	0.112	PQL	mg/Kg	
SL-034-SA5DS-SB-9.0-10.0	CADMIUM	J	0.136	0.275	PQL	mg/Kg	J (all detects)
	MOLYBDENUM	J	0.239	0.275	PQL	mg/Kg	
	SELENIUM	J	0.165	0.440	PQL	mg/Kg	
SL-039-SA5DS-SB-3.0-4.0	ANTIMONY	J	0.139	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.294	0.417	PQL	mg/Kg	
	SILVER	J	0.0229	0.104	PQL	mg/Kg	
SL-139-SA7-SB-2.0-3.0	SELENIUM	J	0.143	0.408	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0442	0.102	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-034-SA5DS-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.25	1.2	PQL	mg/Kg	J (all detects)
SL-139-SA7-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA7-SB-2.0-3.0	MERCURY	J	0.0139	0.101	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA7-SB-2.0-3.0	EFH (C15-C20)	J	0.65	1.3	PQL	mg/Kg	J (all detects)
	EFH (C8-C11)	J	0.44	1.3	PQL	mg/Kg	

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA7-SB-2.0-3.0	AROCLOR 1260	J	0.64	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA7-SB-2.0-3.0	2-CHLORONAPHTHALENE	J	25	170	PQL	ug/Kg	J (all detects)

LDC #: 26979F4

VALIDATION COMPLETENESS WORKSHEET

Date: 1-20-12

SDG #: DE270

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: CR

2nd Reviewer: L

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Cr, Fe, Mg, Mn, Ti, V, Zn > 4x) ^{RR Data}
VII.	Duplicate Sample Analysis	N	Dup (Mo, Se, Ag, Ti < 5x RL - no qual.)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	-	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: Soil

1	SL-139-SA7-SB-2.0-3.0	11		21		31	
2	SL-033-SA5DS-SB-2.0-3.0	12		22		32	
3	SL-034-SA5DS-SB-4.0-5.0	13		23		33	
4	SL-034-SA5DS-SB-9.0-10.0	14		24		34	
5	SL-039-SA5DS-SB-3.0-4.0	15		25		35	
6	DUP03-SA5DS-QC-101711	16		26		36	
7	SL-034-SA5DS-SB-4.0-5.0MS	17		27		37	
8	SL-034-SA5DS-SB-4.0-5.0MSD	18		28		38	
9	SL-034-SA5DS-SB-4.0-5.0DUP	19		29		39	
10		20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Soil preparation factor applied: 100x x MS (2x dil), Hg: 167x
Associated Samples: All

Reason: B

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: mg/Kg

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* (ug/L)	Action Limit	2	3	5			
Sb			0.37	0.37	0.10	0.13	0.14			

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE271

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Oct-2011	TB-101811	6441969	TB	3520C	1625C	III
18-Oct-2011	TB-101811	6441970	TB	3546	1625C	III
18-Oct-2011	TB-101811	6441971	TB	5030B	8015M	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3050B	6010B	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3050B	6020	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3060A	7199	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3550B	8082	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3550B	8270C	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3550B	8270C SIM	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	METHOD	300.0	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	METHOD	314.0	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	METHOD	7471A	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0DU	P441963D220449	DUP	3050B	6010B	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0DU	P441963D270951A	DUP	METHOD	300.0	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0DU	P441963D271430A	DUP	3060A	7199	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0DU	P441963D271540B	DUP	METHOD	314.0	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0MS	P441963R220452	MS	3050B	6010B	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0MS	P441963R260046	MS	3550B	8270C	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0MS	P441963R271006A	MS	METHOD	300.0	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0MS	P441963R271343A	MS	3060A	7199	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0MS	P441963R271626B	MS	METHOD	314.0	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3050B	6010B	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3050B	6020	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3060A	7199	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3550B	8015B	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3550B	8082	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3550B	8270C	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3550B	8270C SIM	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	5035	8015M	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	300.0	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	314.0	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	7471A	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	8015B	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	8015M	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	9012B	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0DUP	P441967D221747	DUP	METHOD	7471A	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0MSD	P441967M221750	MSD	METHOD	7471A	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0MS	P441967R221749	MS	METHOD	7471A	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3050B	6010B	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3050B	6020	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3060A	7199	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3550B	8082	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3550B	8270C	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3550B	8270C SIM	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	METHOD	300.0	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	METHOD	314.0	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	METHOD	7471A	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3050B	6010B	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3060A	7199	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3550B	8015M	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3550B	8082	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3550B	8270C	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3550B	8270C SIM	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	5035	8015M	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	300.0	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	314.0	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	7471A	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	8015B	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	8015M	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	9012B	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0DUP	P441965D221410A	DUP	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0DUP	P441965D221410B	DUP	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0DUP	P441965D221410C	DUP	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0DUP	P441965D221410D	DUP	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MSD	P441965M221416A	MSD	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MSD	P441965M221416B	MSD	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MSD	P441965M221416C	MSD	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MSD	P441965M221416D	MSD	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MS	P441965R221413A	MS	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MS	P441965R221413B	MS	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MS	P441965R221413C	MS	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MS	P441965R221413D	MS	3050B	6020	III
18-Oct-2011	EB-SA7-SB-101811	6441968	EB	3520C	1625C	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3005A	6010B	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3020A	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3510C	8015B	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3510C	8015M	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3510C	8082	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3510C	8270C	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3510C	8270C SIM	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3520C	1625C	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	5030B	8015M	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	8330	8330A	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	Gen Prep	300.0	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	Gen Prep	314.0	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	Gen Prep	7199	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	Gen Prep	8015B	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	Gen Prep	8015M	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	METHOD	7470A	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	METHOD	8315A	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	METHOD	9012B	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3050B	6010B	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3060A	7199	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3550B	8015B	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3550B	8015M	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3550B	8082	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3550B	8270C	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3550B	8270C SIM	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	5035	8015M	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	314.0	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	7471A	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	8015B	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	8015M	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 Collected: 10/18/2011 9:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.92	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-015-SA5DS-SB-3.5-4.5 Collected: 10/18/2011 10:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.89	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.86	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SB-9.0-10.0 Collected: 10/18/2011 2:44:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-140-SA7-SB-3.0-4.0 Collected: 10/18/2011 9:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.1		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA5DS-SB-101811 Collected: 10/18/2011 2:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0034	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/25/2012 1:02:47 PM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 Collected: 10/18/2011 9:10:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	102	J	6.42	MDL	108	PQL	mg/Kg	J	Z
TIN	2.67	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-015-SA5DS-SB-3.5-4.5 Collected: 10/18/2011 10:20:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.54	J	0.337	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.63	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	0.913	J	0.486	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA7-SB-9.0-10.0 Collected: 10/18/2011 2:44:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	102	J	6.68	MDL	112	PQL	mg/Kg	J	Z
TIN	2.58	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.57	J	0.517	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA7-SB-3.0-4.0 Collected: 10/18/2011 9:50:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.90	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.49	J	0.499	MDL	5.42	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 Collected: 10/18/2011 9:10:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.128	J	0.0806	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	6.34		0.0871	MDL	0.436	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 Collected: 10/18/2011 9:10:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.896		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.143		0.0479	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	45.8		0.131	MDL	0.436	PQL	mg/Kg	J	Q, E
COBALT	9.22		0.0218	MDL	0.109	PQL	mg/Kg	J	Q
COPPER	8.96		0.0871	MDL	0.436	PQL	mg/Kg	J	Q, E
LEAD	7.64		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	16.7		0.109	MDL	0.436	PQL	mg/Kg	J	Q, E, E
SILVER	0.0267	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.272		0.0327	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	78.1		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-013-SA5DS-SB-4.0-5.0 Collected: 10/18/2011 9:10:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.304	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z, Q

Sample ID: SL-013-SA5DS-SB-4.0-5.0 Collected: 10/18/2011 9:10:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.585		0.0544	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-013-SA5DS-SB-4.0-5.0 Collected: 10/18/2011 9:10:00 Analysis Type: REA7 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	92.1		0.115	MDL	0.436	PQL	mg/Kg	J	E

Sample ID: SL-015-SA5DS-SB-3.5-4.5 Collected: 10/18/2011 10:20:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.150	J	0.0803	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	5.91		0.0868	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.774		0.0174	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.151		0.0477	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	41.8		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E
COBALT	9.72		0.0217	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 Matrix: SO

Sample ID: SL-015-SA5DS-SB-3.5-4.5 Collected: 10/18/2011 10:20:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	8.23		0.0868	MDL	0.434	PQL	mg/Kg	J	Q, E
LEAD	7.22		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	14.6		0.108	MDL	0.434	PQL	mg/Kg	J	Q, E, E
SILVER	0.0200	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.226		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	72.2		0.0239	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-015-SA5DS-SB-3.5-4.5 Collected: 10/18/2011 10:20:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.303	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z, Q

Sample ID: SL-015-SA5DS-SB-3.5-4.5 Collected: 10/18/2011 10:20:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.498		0.0542	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-015-SA5DS-SB-3.5-4.5 Collected: 10/18/2011 10:20:00 Analysis Type: REA7 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.8		0.115	MDL	0.434	PQL	mg/Kg	J	E

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0932	J	0.0782	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	4.80		0.0845	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.654		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.0809	J	0.0465	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.1		0.127	MDL	0.423	PQL	mg/Kg	J	Q, E
COBALT	5.59		0.0211	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	7.09		0.0845	MDL	0.423	PQL	mg/Kg	J	Q, E
LEAD	6.15		0.0108	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	10.7		0.106	MDL	0.423	PQL	mg/Kg	J	Q, E, E
SILVER	0.0314	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.306		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	39.0		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z, Q

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.487		0.0528	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: REA7 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	77.4		0.112	MDL	0.423	PQL	mg/Kg	J	E

Sample ID: SL-020-SA7-SB-9.0-10.0 Collected: 10/18/2011 2:44:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.230	J	0.0864	MDL	0.234	PQL	mg/Kg	J	Z, Q
ARSENIC	24.6		0.0935	MDL	0.467	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.60		0.0187	MDL	0.117	PQL	mg/Kg	J	Q, E
CHROMIUM	27.3		0.140	MDL	0.467	PQL	mg/Kg	J	Q, E
COBALT	5.98		0.0234	MDL	0.117	PQL	mg/Kg	J	Q
COPPER	12.7		0.0935	MDL	0.467	PQL	mg/Kg	J	Q, E
LEAD	13.1		0.0119	MDL	0.234	PQL	mg/Kg	J	Q, E
NICKEL	15.3		0.117	MDL	0.467	PQL	mg/Kg	J	Q, E, E
SILVER	0.0874	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z, Q
THALLIUM	0.211		0.0350	MDL	0.117	PQL	mg/Kg	J	Q
VANADIUM	77.4		0.0257	MDL	0.117	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020	Matrix:		SO						

Sample ID: SL-020-SA7-SB-9.0-10.0 Collected: 10/18/2011 2:44:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.305	J	0.0678	MDL	0.467	PQL	mg/Kg	J	Z, Q

Sample ID: SL-020-SA7-SB-9.0-10.0 Collected: 10/18/2011 2:44:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.95		0.0584	MDL	0.117	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SB-9.0-10.0 Collected: 10/18/2011 2:44:00 Analysis Type: REA7 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	79.8		0.124	MDL	0.467	PQL	mg/Kg	J	E

Sample ID: SL-140-SA7-SB-3.0-4.0 Collected: 10/18/2011 9:50:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0965	J	0.0810	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	6.03		0.0876	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.746		0.0175	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	24.6		0.131	MDL	0.438	PQL	mg/Kg	J	Q, E
COBALT	5.53		0.0219	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	5.24		0.0876	MDL	0.438	PQL	mg/Kg	J	Q, E
LEAD	6.89		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	12.4		0.110	MDL	0.438	PQL	mg/Kg	J	Q, E, E
SILVER	0.0460	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.204		0.0329	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	48.0		0.0241	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-140-SA7-SB-3.0-4.0 Collected: 10/18/2011 9:50:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.359	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-140-SA7-SB-3.0-4.0 Collected: 10/18/2011 9:50:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.663		0.0548	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-140-SA7-SB-3.0-4.0 Collected: 10/18/2011 9:50:00 Analysis Type: REA7 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.9		0.116	MDL	0.438	PQL	mg/Kg	J	E

Method Category: METALS
Method: 7199 **Matrix:** SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 Collected: 10/18/2011 9:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA7-SB-9.0-10.0 Collected: 10/18/2011 2:44:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA7-SB-3.0-4.0 Collected: 10/18/2011 9:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-020-SA7-SB-9.0-10.0 Collected: 10/18/2011 2:44:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0143	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA7-SB-3.0-4.0 Collected: 10/18/2011 9:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0486	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 8082 **Matrix:** SO

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA
Method: 8270C **Matrix:** SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 Collected: 10/18/2011 9:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q

Sample ID: SL-015-SA5DS-SB-3.5-4.5 Collected: 10/18/2011 10:20:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	390	J	180	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	J	180	MDL	540	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** AQ

Sample ID: EB-SA5DS-SB-101811 Collected: 10/18/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	0.10	U	0.10	MDL	2.0	PQL	ug/L	UJ	L
Dimethylphthalate	0.10	U	0.10	MDL	2.0	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.14	J	0.10	MDL	2.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.18	J	0.10	MDL	2.0	PQL	ug/L	U	B

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-020-SA7-SB-4.0-5.0 Collected: 10/18/2011 12:23:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.9	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.39	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE271

Method Blank Outlier Report

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA29B261354	11/1/2011 1:54:00 PM	N-NITROSODIMETHYLAMINE	0.718 ng/L	EB-SA5DS-SB-101811 EB-SA7-SB-101811 TB-101811

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29248FB221946	10/21/2011 7:46:00 PM	MANGANESE	0.00046 mg/L	EB-SA5DS-SB-101811

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29308GB222025	10/26/2011 8:25:00 PM	CALCIUM IRON MAGNESIUM PHOSPHORUS TIN	4.81 mg/Kg 9.83 mg/Kg 0.564 mg/Kg 1.17 mg/Kg 1.40 mg/Kg	SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-013-SA5DS-SB-4.0-5.0(REA2)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-015-SA5DS-SB-3.5-4.5(REA2)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-020-SA7-SB-4.0-5.0(REA2)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-020-SA7-SB-9.0-10.0(REA2)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-140-SA7-SB-3.0-4.0(REA2)	TIN	2.90 mg/Kg	2.90U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29326DB221357A	10/24/2011 1:57:00 PM	COPPER LEAD VANADIUM	0.117 mg/Kg 0.0110 mg/Kg 0.195 mg/Kg	SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0
P29326DB221357C	10/24/2011 1:57:00 PM	MOLYBDENUM	0.0581 mg/Kg	SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE29B260829	10/25/2011 8:29:00 AM	Di-n-octylphthalate	0.094 ug/L	EB-SA5DS-SB-101811

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DS-SB-101811(RES)	Di-n-octylphthalate	0.18 ug/L	2.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-020-SA7-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	CADMIUM COBALT SILVER THALLIUM	- - - -	135 146 138 151	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	CADMIUM COBALT SILVER THALLIUM	J (all detects)
SL-020-SA7-SB-4.0-5.0MS SL-020-SA7-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	ANTIMONY ARSENIC BERYLLIUM CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	39 - - - - - - - 62	46 188 138 182 159 187 161 229 187	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 24 (20.00) 22 (20.00) 25 (20.00) 23 (20.00) 23 (20.00) 22 (20.00) 28 (20.00) -	ANTIMONY ARSENIC BERYLLIUM CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x
SL-020-SA7-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	SELENIUM	-	135	75.00-125.00	-	SELENIUM	J(all detects)
SL-020-SA7-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	MOLYBDENUM	-	139	75.00-125.00	23 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-020-SA7-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	BARIUM	-	326	75.00-125.00	24 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No %R Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-013-SA5DS-SB-4.0-5.0MS SL-013-SA5DS-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	ALUMINUM CALCIUM MAGNESIUM TITANIUM	1463 153 153 211	1098 171 - 231	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM MAGNESIUM TITANIUM	No Qual, >4x
SL-013-SA5DS-SB-4.0-5.0MS SL-013-SA5DS-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	IRON	437	-350	75.00-125.00	-	IRON	No Qual, >4x
SL-013-SA5DS-SB-4.0-5.0MS (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	MANGANESE	66	-	75.00-125.00	-	MANGANESE	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-013-SA5DS-SB-4.0-5.0MS SL-013-SA5DS-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0)	BENZIDINE	16	15	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-013-SA5DS-SB-4.0-5.0MS (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	FLUORIDE	53	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-013-SA5DS-SB-4.0-5.0DUP (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	FLUORIDE	22	20.00	J (all detects) UJ (all non-detects)

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-013-SA5DS-SB-4.0-5.0DUP (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	HEXAVALENT CHROMIUM	36	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-020-SA7-SB-4.0-5.0DUP (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	CADMIUM NICKEL SILVER	36 35 50	20.00 20.00 20.00	J(all detects) UJ(all non-detects) Cd, Ag, No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12948AQ321249A (EB-SA5DS-SB-101811)	EFH (C8-C11)	114	-	46.00-107.00	-	EFH (C8-C11)	J (all detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WELCSQ260901 P7WELCSY260933 (EB-SA5DS-SB-101811)	Butylbenzylphthalate Dimethylphthalate	22 10	21 10	40.00-138.00 40.00-119.00	- -	Butylbenzylphthalate Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WILCSQ261638 P7WILCSY261703 (EB-SA5DS-SB-101811)	PENTACHLOROPHENOL	111	112	53.00-110.00	-	PENTACHLOROPHENOL	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29326DQ221400A (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	ANTIMONY	75	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SB-101811	BORON	J	0.0034	0.0500	PQL	mg/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SB-101811	Di-n-butylphthalate	J	0.14	2.0	PQL	ug/L	J (all detects)
	Di-n-octylphthalate	J	0.18	2.0	PQL	ug/L	

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5DS-SB-4.0-5.0	SODIUM	J	102	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.67	10.8	PQL	mg/Kg	
SL-015-SA5DS-SB-3.5-4.5	TIN	J	2.54	10.5	PQL	mg/Kg	J (all detects)
SL-020-SA7-SB-4.0-5.0	TIN	J	2.63	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.913	5.28	PQL	mg/Kg	
SL-020-SA7-SB-9.0-10.0	SODIUM	J	102	112	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	11.2	PQL	mg/Kg	
	Zirconium	J	1.57	5.62	PQL	mg/Kg	
SL-140-SA7-SB-3.0-4.0	TIN	J	2.90	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.49	5.42	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5DS-SB-4.0-5.0	ANTIMONY	J	0.128	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.304	0.436	PQL	mg/Kg	
	SILVER	J	0.0267	0.109	PQL	mg/Kg	
SL-015-SA5DS-SB-3.5-4.5	ANTIMONY	J	0.150	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.303	0.434	PQL	mg/Kg	
	SILVER	J	0.0200	0.108	PQL	mg/Kg	
SL-020-SA7-SB-4.0-5.0	ANTIMONY	J	0.0932	0.211	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0809	0.106	PQL	mg/Kg	
	SELENIUM	J	0.144	0.423	PQL	mg/Kg	
	SILVER	J	0.0314	0.106	PQL	mg/Kg	
SL-020-SA7-SB-9.0-10.0	ANTIMONY	J	0.230	0.234	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.305	0.467	PQL	mg/Kg	
	SILVER	J	0.0874	0.117	PQL	mg/Kg	
SL-140-SA7-SB-3.0-4.0	ANTIMONY	J	0.0965	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.359	0.438	PQL	mg/Kg	
	SILVER	J	0.0460	0.110	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE271

Laboratory: LL

EDD Filename: DE271_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)
SL-020-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-020-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-140-SA7-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.60	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA7-SB-9.0-10.0	MERCURY	J	0.0143	0.111	PQL	mg/Kg	J (all detects)
SL-140-SA7-SB-3.0-4.0	MERCURY	J	0.0486	0.107	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA7-SB-4.0-5.0	AROCLOR 1260	J	1.6	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA5DS-SB-3.5-4.5	BENZOIC ACID	J	390	550	PQL	ug/Kg	J (all detects)
SL-020-SA7-SB-4.0-5.0	BENZOIC ACID	J	180	540	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA7-SB-4.0-5.0	BENZO(K)FLUORANTHENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.9	19	PQL	ug/Kg	
	CHRYSENE	J	0.39	1.8	PQL	ug/Kg	

LDC #: 26979G4

VALIDATION COMPLETENESS WORKSHEET

Date: 1-20-12

SDG #: DE271

ADR

Page: Lof1

Laboratory: Lancaster Laboratories

Reviewer: OL

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	A	no equals
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (Al, Ca, Fe, Mg, Mn, Pt) > 4x (Ba, Zn > 4x) ^{→ RPD out}
VII.	Duplicate Sample Analysis	N	Dup (Cd, Ag < 5x RL - no equal)
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	CB=6

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SL-013-SA5DS-SB-4.0-5.0	11	(A3)MSD	21	31
2	SL-015-SA5DS-SB-3.5-4.5	12	↓ Dup	22	32
3	SL-020-SA7-SB-4.0-5.0	13	(A5)MS (CH3)	23	33
4	SL-020-SA7-SB-9.0-10.0	14	↓ MSD	24	34
5	SL-140-SA7-SB-3.0-4.0	15	↓ Dup	25	35
6	EB-SA5DS-SB-101811	16		26	36
7	(A)MS (ICP only)	17		27	37
8	↓ MSD	18		28	38
9	↓ Dup	19		29	39
10	(A3)MS (MS)	20		30	40

Notes: _____

SAMPLE DELIVERY GROUP

DE272

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Oct-2011	TB-101911	6443496	TB	3520C	1625C	IV
19-Oct-2011	TB-101911	6443497	TB	3546	1625C	IV
19-Oct-2011	TB-101911	6443498	TB	5030B	8015M	IV
19-Oct-2011	TB-101911	6443498	TB	5030B	8260B	IV
19-Oct-2011	TB-101911	6443498	TB	5030B	8260B SIM	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3050B	6010B	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3060A	7199	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3550B	8082	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3550B	8270C	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3550B	8270C SIM	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	METHOD	300.0	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	METHOD	314.0	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	METHOD	7471A	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D220504A	DUP	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D220504B	DUP	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D220504C	DUP	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D220504D	DUP	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D221612	DUP	METHOD	7471A	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D271557A	DUP	METHOD	314.0	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R220507A	MS	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R220507B	MS	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R220507C	MS	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R220507D	MS	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R221613	MS	METHOD	7471A	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R242257A	MS	3550B	8082	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R262026	MS	3550B	8270C	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R271618A	MS	METHOD	314.0	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3050B	6010B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3050B	6020	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3060A	7199	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3546	1625C	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3550B	8015B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3550B	8015M	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3550B	8082	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3550B	8270C	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3550B	8270C SIM	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	5035	8015M	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	5035	8260B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	5035	8260B SIM	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	8330	8330A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	300.0	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	314.0	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	7471A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	8015B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	8015M	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	8315A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	9012B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0DUP	P443491D270836A	DUP	METHOD	9012B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MSD	P443491M240148A	MSD	8330	8330A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MSD	P443491M242334A	MSD	METHOD	8315A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MSD	P443491M261249	MSD	3550B	8270C SIM	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MSD	P443491M262318	MSD	3546	1625C	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MSD	P443491M322325A	MSD	METHOD	8015B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R240106A	MS	8330	8330A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R242324A	MS	METHOD	8315A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R261217	MS	3550B	8270C SIM	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R262259	MS	3546	1625C	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R270840A	MS	METHOD	9012B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R322308A	MS	METHOD	8015B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3050B	6010B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3050B	6020	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3060A	7199	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3546	1625C	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3550B	8015B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3550B	8015M	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3550B	8082	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3550B	8270C	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3550B	8270C SIM	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	5035	8015M	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	5035	8260B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	5035	8260B SIM	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	8330	8330A	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	300.0	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	314.0	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	7471A	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	8015B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	8015M	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	8315A	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	9012B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0MSD	P443492M322142A	MSD	3550B	8015B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0MS	P443492R322120A	MS	3550B	8015B	IV
19-Oct-2011	EB-SA7-SB-101911	6443495	EB	3520C	1625C	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3005A	6010B	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3020A	6020	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3510C	8015B	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3510C	8015M	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3510C	8082	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3510C	8270C	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3510C	8270C SIM	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3520C	1625C	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	5030B	8015M	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	5030B	8260B	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	5030B	8260B SIM	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	8330	8330A	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	Gen Prep	300.0	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	Gen Prep	314.0	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	Gen Prep	7199	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	Gen Prep	8015B	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	Gen Prep	8015M	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	METHOD	7470A	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	METHOD	8315A	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	METHOD	9012B	IV
19-Oct-2011	EB-SA7-SB-101911MSD	P443499M322348A	MSD	Gen Prep	8015M	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Oct-2011	EB-SA7-SB-101911MS	P443499R322335A	MS	Gen Prep	8015M	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3050B	6010B	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3050B	6020	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3060A	7199	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3550B	8015B	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3550B	8015M	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3550B	8082	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3550B	8270C	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3550B	8270C SIM	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	5035	8015M	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	300.0	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	314.0	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	7471A	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	8015B	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	8015M	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	9012B	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3050B	6010B	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3050B	6020	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3060A	7199	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3550B	8015B	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3550B	8015M	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3550B	8082	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3550B	8270C	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3550B	8270C SIM	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	5035	8015M	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	300.0	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	314.0	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	7471A	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	8015B	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	8015M	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	9012B	IV

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 300.0 **Matrix:** SO

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-9.0-10.0 Collected: 10/19/2011 10:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 6010B **Matrix:** AQ

Sample ID: EB-SA7-SB-101911 Collected: 10/19/2011 2:30:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	0.0055	J	0.0047	MDL	0.100	PQL	mg/L	J	Z
STRONTIUM	0.00056	J	0.00022	MDL	0.0050	PQL	mg/L	U	B
TITANIUM	0.00063	J	0.00046	MDL	0.0100	PQL	mg/L	U	B

Sample ID: EB-SA7-SB-101911 Collected: 10/19/2011 2:30:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0088	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-016-SA5DS-SB-4.0-5.0 Collected: 10/19/2011 9:42:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.00	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
PHOSPHORUS	432		0.377	MDL	10.8	PQL	mg/Kg	J	Q, E
TIN	2.95	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

Sample ID: SL-142-SA7-SB-2.0-3.0 Collected: 10/19/2011 3:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.61	J	0.367	MDL	5.10	PQL	mg/Kg	U	F
PHOSPHORUS	410		0.357	MDL	10.2	PQL	mg/Kg	J	Q, E
SODIUM	90.5	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	2.79	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.77	J	0.469	MDL	5.10	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SB-7.0-8.0 Collected: 10/19/2011 3:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.916	J	0.366	MDL	5.08	PQL	mg/Kg	U	F
PHOSPHORUS	268		0.355	MDL	10.2	PQL	mg/Kg	J	Q, E
SODIUM	95.8	J	6.04	MDL	102	PQL	mg/Kg	J	Z
TIN	2.75	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.78	J	0.467	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	192		0.362	MDL	10.3	PQL	mg/Kg	J	Q, E
SODIUM	95.7	J	6.15	MDL	103	PQL	mg/Kg	J	Z
TIN	2.77	J	0.331	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	3.80	J	0.476	MDL	5.17	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-9.0-10.0 Collected: 10/19/2011 10:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.975	J	0.374	MDL	5.20	PQL	mg/Kg	U	F
PHOSPHORUS	137		0.364	MDL	10.4	PQL	mg/Kg	J	Q, E
TIN	3.03	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.23	J	0.478	MDL	5.20	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: AQ

Sample ID: EB-SA7-SB-101911 Collected: 10/19/2011 2:30:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00012	J	0.00008 0	MDL	0.0010	PQL	mg/L	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-016-SA5DS-SB-4.0-5.0 Collected: 10/19/2011 9:42:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0625	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5DS-SB-4.0-5.0 Collected: 10/19/2011 9:42:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	65.0		0.114	MDL	0.431	PQL	mg/Kg	J	A

Sample ID: SL-016-SA5DS-SB-4.0-5.0 Collected: 10/19/2011 9:42:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.243		0.0797	MDL	0.215	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.58		0.0862	MDL	0.431	PQL	mg/Kg	J	Q, E
CHROMIUM	36.8		0.129	MDL	0.431	PQL	mg/Kg	J	Q, A
COBALT	6.94		0.0215	MDL	0.108	PQL	mg/Kg	J	A
COPPER	6.80		0.0862	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	5.59		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E, A
NICKEL	12.6		0.108	MDL	0.431	PQL	mg/Kg	J	Q, A
SILVER	0.0268	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	66.2		0.0237	MDL	0.108	PQL	mg/Kg	J	A

Sample ID: SL-142-SA7-SB-2.0-3.0 Collected: 10/19/2011 3:15:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.130	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6020	Matrix:	SO						

Sample ID: SL-142-SA7-SB-2.0-3.0 Collected: 10/19/2011 3:15:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.4		0.108	MDL	0.408	PQL	mg/Kg	J	A

Sample ID: SL-142-SA7-SB-2.0-3.0 Collected: 10/19/2011 3:15:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.42		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
CHROMIUM	17.6		0.122	MDL	0.408	PQL	mg/Kg	J	Q, A
COBALT	5.56		0.0204	MDL	0.102	PQL	mg/Kg	J	A
COPPER	7.54		0.0816	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	5.27		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E, A
NICKEL	10.5		0.102	MDL	0.408	PQL	mg/Kg	J	Q, A
SILVER	0.0294	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	34.2		0.0224	MDL	0.102	PQL	mg/Kg	J	A

Sample ID: SL-142-SA7-SB-7.0-8.0 Collected: 10/19/2011 3:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.362	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SB-7.0-8.0 Collected: 10/19/2011 3:45:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	78.2		0.111	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-142-SA7-SB-7.0-8.0 Collected: 10/19/2011 3:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0774	U	0.0774	MDL	0.209	PQL	mg/Kg	UJ	Q
ARSENIC	4.35		0.0836	MDL	0.418	PQL	mg/Kg	J	Q, E
CHROMIUM	14.6		0.125	MDL	0.418	PQL	mg/Kg	J	Q, A
COBALT	4.48		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	6.22		0.0836	MDL	0.418	PQL	mg/Kg	J	Q
LEAD	8.15		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, E, A
NICKEL	8.55		0.105	MDL	0.418	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-142-SA7-SB-7.0-8.0 Collected: 10/19/2011 3:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0484	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	28.7		0.0230	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.197	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.111	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.154	J	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.10		0.0835	MDL	0.418	PQL	mg/Kg	J	Q, E
CADMIUM	0.0555	J	0.0459	MDL	0.104	PQL	mg/Kg	J	Z
CHROMIUM	24.6		0.125	MDL	0.418	PQL	mg/Kg	J	Q, A
COBALT	7.74		0.0209	MDL	0.104	PQL	mg/Kg	J	A
COPPER	8.20		0.0835	MDL	0.418	PQL	mg/Kg	J	Q
LEAD	7.87		0.0106	MDL	0.209	PQL	mg/Kg	J	Q, E, A
NICKEL	14.8		0.104	MDL	0.418	PQL	mg/Kg	J	Q, A
SILVER	0.0661	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	48.5		0.0230	MDL	0.104	PQL	mg/Kg	J	A

Sample ID: SL-143-SA7-SB-9.0-10.0 Collected: 10/19/2011 10:50:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.223	J	0.0597	MDL	0.412	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-143-SA7-SB-9.0-10.0 Collected: 10/19/2011 10:50:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	95.3		0.109	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-143-SA7-SB-9.0-10.0 Collected: 10/19/2011 10:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0762	MDL	0.206	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.25		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
CHROMIUM	27.0		0.124	MDL	0.412	PQL	mg/Kg	J	Q, A
COBALT	5.25		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	7.13		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	7.73		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, E, A
NICKEL	13.9		0.103	MDL	0.412	PQL	mg/Kg	J	Q, A
SILVER	0.0815	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	53.8		0.0227	MDL	0.103	PQL	mg/Kg	J	A

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-016-SA5DS-SB-4.0-5.0 Collected: 10/19/2011 9:42:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SB-2.0-3.0 Collected: 10/19/2011 3:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SB-7.0-8.0 Collected: 10/19/2011 3:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-9.0-10.0 Collected: 10/19/2011 10:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.81	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-142-SA7-SB-7.0-8.0 Collected: 10/19/2011 3:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0231	J	0.0070	MDL	0.0991	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0081	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA7-SB-101911 Collected: 10/19/2011 2:30:00 Analysis Type: REA-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.55		0.500	MDL	1.00	PQL	ng/L	U	B

Sample ID: EB-SA7-SB-101911 Collected: 10/19/2011 2:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.66		0.527	MDL	1.05	PQL	ng/L	U	B, T

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: TB-101911 Collected: 10/19/2011 8:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.860	J	0.495	MDL	0.990	PQL	ng/L	U	B

Method Category:	SVOA	
Method:	8015M	Matrix: AQ

Sample ID: EB-SA7-SB-101911 Collected: 10/19/2011 2:30:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	Q
Propylene glycol	20	U	20	MDL	200	PQL	mg/L	UJ	Q

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-142-SA7-SB-2.0-3.0 Collected: 10/19/2011 3:15:00 Analysis Type: REA Dilution: 26.32

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SB-2.0-3.0 Collected: 10/19/2011 3:15:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.56	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C15-C20)	1.0	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: REA Dilution: 27.11

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.3	J	0.2	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.67	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C15-C20)	1.0	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-143-SA7-SB-9.0-10.0 Collected: 10/19/2011 10:50:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.50	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-142-SA7-SB-7.0-8.0 Collected: 10/19/2011 3:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	3.0	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, *XIII

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-016-SA5DS-SB-4.0-5.0 Collected: 10/19/2011 9:42:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	R	Q

Sample ID: SL-142-SA7-SB-2.0-3.0 Collected: 10/19/2011 3:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	350	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C SIM	Matrix: AQ

Sample ID: EB-SA7-SB-101911 Collected: 10/19/2011 2:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.16	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Butylbenzylphthalate	0.053	U	0.053	MDL	1.1	PQL	ug/L	UJ	L
Diethylphthalate	0.19	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Dimethylphthalate	0.053	U	0.053	MDL	1.1	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB-SA7-SB-101911

Collected: 10/19/2011 2:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	0.27	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.096	J	0.053	MDL	1.1	PQL	ug/L	U	B
NAPHTHALENE	0.039	J	0.032	MDL	0.053	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-142-SA7-SB-2.0-3.0

Collected: 10/19/2011 3:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.87	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.85	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.89	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-142-SA7-SB-7.0-8.0

Collected: 10/19/2011 3:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.77	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.76	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	0.92	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.90	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA7-SB-9.0-10.0

Collected: 10/19/2011 10:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8330A	Matrix: AQ

Sample ID: EB-SA7-SB-101911 Collected: 10/19/2011 2:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
RDX	0.99	U	0.20	MDL	0.60	PQL	ug/L	NJ	*IX

Method Category:	SVOA	
Method:	8330A	Matrix: SO

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	65	U	65	MDL	130	PQL	ug/Kg	UJ	C

Sample ID: SL-143-SA7-SB-9.0-10.0 Collected: 10/19/2011 10:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	64	U	64	MDL	120	PQL	ug/Kg	UJ	C

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: SL-142-SA7-SB-2.0-3.0 Collected: 10/19/2011 3:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	100	U	100	MDL	520	PQL	ug/Kg	UJ	C

Sample ID: SL-142-SA7-SB-7.0-8.0 Collected: 10/19/2011 3:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	110	U	110	MDL	530	PQL	ug/Kg	UJ	C

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	110	U	110	MDL	530	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: SL-143-SA7-SB-9.0-10.0 Collected: 10/19/2011 10:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	110	U	110	MDL	530	PQL	ug/Kg	UJ	C

Method Category:	VOA	
Method:	8260B	Matrix: SO

Sample ID: SL-143-SA7-SB-5.0-6.0 Collected: 10/19/2011 9:45:00 Analysis Type: RES Dilution: 1.05

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	0.56	U	0.56	MDL	5.6	PQL	ug/Kg	UJ	C
4-METHYL-2-PENTANONE (MIBK)	0.44	U	0.44	MDL	9.0	PQL	ug/Kg	UJ	C
CHLOROFORM	0.14	J	0.14	MDL	4.5	PQL	ug/Kg	U	B
Chlorotrifluoroethylene	0.56	U	0.56	MDL	5.6	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.78	J	0.27	MDL	4.5	PQL	ug/Kg	U	B, F
TOLUENE	0.21	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA7-SB-9.0-10.0 Collected: 10/19/2011 10:50:00 Analysis Type: RES Dilution: 1.09

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	0.58	U	0.58	MDL	5.8	PQL	ug/Kg	UJ	C
4-METHYL-2-PENTANONE (MIBK)	0.45	U	0.45	MDL	9.2	PQL	ug/Kg	UJ	C
CHLOROFORM	0.15	J	0.14	MDL	4.6	PQL	ug/Kg	U	B
Chlorotrifluoroethylene	0.58	U	0.58	MDL	5.8	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.99	J	0.28	MDL	4.6	PQL	ug/Kg	U	B, F
TOLUENE	0.21	J	0.09	MDL	4.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
*IX, XIII	Compound Quantitation and RLS
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Percent Difference Lower Estimation
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
T	Trip Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE272

Method Blank Outlier Report

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC29B261352	11/2/2011 1:52:00 PM	N-NITROSODIMETHYLAMINE	0.887 ng/L	EB-SA7-SB-101911 TB-101911

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101911(REA)	N-NITROSODIMETHYLAMINE	4.55 ng/L	4.55U ng/L
EB-SA7-SB-101911(RES)	N-NITROSODIMETHYLAMINE	3.66 ng/L	3.66U ng/L
TB-101911(RES)	N-NITROSODIMETHYLAMINE	0.860 ng/L	0.990U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29948CB221021	11/1/2011 10:21:00 AM	BORON MAGNESIUM	0.0024 mg/L 0.0171 mg/L	EB-SA7-SB-101911
P29948CB221824	10/28/2011 6:24:00 PM	CALCIUM IRON STRONTIUM	0.0765 mg/L 0.0246 mg/L 0.00028 mg/L	EB-SA7-SB-101911

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101911(REA)	STRONTIUM	0.00056 mg/L	0.00056U mg/L
EB-SA7-SB-101911(REA2)	BORON	0.0088 mg/L	0.0088U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29708DB221338	10/25/2011 1:38:00 PM	ALUMINUM CALCIUM MAGNESIUM PHOSPHORUS TIN	6.96 mg/Kg 4.01 mg/Kg 1.57 mg/Kg 0.992 mg/Kg 1.31 mg/Kg	SL-016-SA5DS-SB-4.0-5.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-016-SA5DS-SB-4.0-5.0(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-142-SA7-SB-2.0-3.0(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-142-SA7-SB-7.0-8.0(RES)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-143-SA7-SB-5.0-6.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-143-SA7-SB-9.0-10.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB95B211321A	10/25/2011 1:21:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.22 ug/Kg 0.76 ug/Kg	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-143-SA7-SB-5.0-6.0(RES)	CHLOROFORM	0.14 ug/Kg	4.5U ug/Kg
SL-143-SA7-SB-5.0-6.0(RES)	METHYLENE CHLORIDE	0.78 ug/Kg	4.5U ug/Kg
SL-143-SA7-SB-9.0-10.0(RES)	CHLOROFORM	0.15 ug/Kg	4.6U ug/Kg
SL-143-SA7-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.99 ug/Kg	4.6U ug/Kg

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE29B260829	10/25/2011 8:29:00 AM	Di-n-octylphthalate	0.094 ug/L	EB-SA7-SB-101911

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101911(RES)	Di-n-octylphthalate	0.096 ug/L	1.1U ug/L

Trip Blank Outlier Report

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101911(RES)	10/19/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	0.86 ng/L	EB-SA7-SB-101911 SL-016-SA5DS-SB-4.0-5.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101911(RES)	N-NITROSODIMETHYLAMINE	3.66 ng/L	3.66U ng/L

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA7-SB-101911(REA)	10/19/2011 2:30:00 PM	PHOSPHORUS STRONTIUM TITANIUM	0.0055 mg/L 0.00056 mg/L 0.00063 mg/L	SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0
EB-SA7-SB-101911(REA2)	10/19/2011 2:30:00 PM	BORON	0.0088 mg/L	SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-142-SA7-SB-2.0-3.0(RES)	BORON	1.61 mg/Kg	1.61U mg/Kg
SL-142-SA7-SB-7.0-8.0(RES)	BORON	0.916 mg/Kg	0.916U mg/Kg
SL-143-SA7-SB-9.0-10.0(RES)	BORON	0.975 mg/Kg	0.975U mg/Kg

Method: 8260B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA7-SB-101911(RES)	10/19/2011 2:30:00 PM	METHYLENE CHLORIDE	5 ug/L	SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-143-SA7-SB-5.0-6.0(RES)	METHYLENE CHLORIDE	0.78 ug/Kg	4.5U ug/Kg
SL-143-SA7-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.99 ug/Kg	4.6U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
EB-SA7-SB-101911MS EB-SA7-SB-101911MSD (EB-SA7-SB-101911)	ETHYLENE GLYCOL Propylene glycol	70 75	- 90	89.00-125.00 91.00-128.00	25 (20.00) -	ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-016-SA5DS-SB-4.0-5.0MSD (SL-016-SA5DS-SB-4.0-5.0)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE 4,6-DINITRO-2-METHYLPHENOL	- - -	- - -	20.00-143.00 28.00-109.00 11.00-126.00	104 (30.00) 33 (30.00) 53 (30.00)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE 4,6-DINITRO-2-METHYLPHEN	J(all detects)
SL-016-SA5DS-SB-4.0-5.0MS SL-016-SA5DS-SB-4.0-5.0MSD (SL-016-SA5DS-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-016-SA5DS-SB-4.0-5.0MS SL-016-SA5DS-SB-4.0-5.0MSD (SL-016-SA5DS-SB-4.0-5.0)	ARSENIC CHROMIUM COPPER	148 - 127	161 149 133	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ARSENIC CHROMIUM COPPER	J(all detects)
SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0)	LEAD NICKEL VANADIUM ZINC	146 135 159 162	153 142 199 186	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	LEAD NICKEL VANADIUM ZINC	V, Zn, No Qual, >4x
SL-016-SA5DS-SB-4.0-5.0MS SL-016-SA5DS-SB-4.0-5.0MSD (SL-016-SA5DS-SB-4.0-5.0)	ANTIMONY	49	57	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-016-SA5DS-SB-4.0-5.0MS SL-016-SA5DS-SB-4.0-5.0MSD (SL-016-SA5DS-SB-4.0-5.0)	BARIUM	206	245	75.00-125.00	-	BARIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-016-SA5DS-SB-4.0-5.0DUP (SL-016-SA5DS-SB-4.0-5.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0)	ARSENIC LEAD	21 21	20.00 20.00	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12948AQ321249A (EB-SA7-SB-101911)	EFH (C8-C11)	114	-	43.00-107.00	-	EFH (C8-C11)	J (all detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WELCSQ260901 P7WELCSY260933 (EB-SA7-SB-101911)	Butylbenzylphthalate Dimethylphthalate	22 10	21 10	40.00-138.00 40.00-119.00	- -	Butylbenzylphthalate Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WILCSQ261638 P7WILCSY261703 (EB-SA7-SB-101911)	PENTACHLOROPHENOL	111	112	53.00-110.00	-	PENTACHLOROPHENOL	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29726BQ220455A (SL-016-SA5DS-SB-4.0-5.0 SL -142-SA7-SB-2.0-3.0 SL -142-SA7-SB-7.0-8.0 SL -143-SA7-SB-5.0-6.0 SL -143-SA7-SB-9.0-10.0)	ANTIMONY	122	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1B95Q211434A LCS1B95Y211457A LCSB95Q211343A (SL-143-SA7-SB-5.0-6.0 SL -143-SA7-SB-9.0-10.0)	1,1,2-TRICHLORO-1,2,2-TRIFLU 1,1-DICHLOROETHENE 2-Chloro-1,1,1-trifluoroethane	134 126 129	- - 123	61.00-126.00 73.00-123.00 78.00-120.00	- - -	1,1,2-TRICHLORO-1,2,2-TRIFL 1,1-DICHLOROETHENE 2-Chloro-1,1,1-trifluoroethane	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TB-101911	N-NITROSODIMETHYLAMINE	J	0.860	0.990	PQL	ng/L	J (all detects)

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101911	BORON	J	0.0088	0.0500	PQL	mg/L	J (all detects)
	PHOSPHORUS	J	0.0055	0.100	PQL	mg/L	
	STRONTIUM	J	0.00056	0.0050	PQL	mg/L	
	TITANIUM	J	0.00063	0.0100	PQL	mg/L	

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101911	LEAD	J	0.00012	0.0010	PQL	mg/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101911	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.16	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.19	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.27	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.096	1.1	PQL	ug/L	
	NAPHTHALENE	J	0.039	0.053	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA7-SB-5.0-6.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-143-SA7-SB-9.0-10.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5DS-SB-4.0-5.0	BORON	J	2.00	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.8	PQL	mg/Kg	
SL-142-SA7-SB-2.0-3.0	BORON	J	1.61	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.5	102	PQL	mg/Kg	
	TIN	J	2.79	10.2	PQL	mg/Kg	
	Zirconium	J	2.77	5.10	PQL	mg/Kg	
SL-142-SA7-SB-7.0-8.0	BORON	J	0.916	5.08	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.8	102	PQL	mg/Kg	
	TIN	J	2.75	10.2	PQL	mg/Kg	
	Zirconium	J	2.78	5.08	PQL	mg/Kg	
SL-143-SA7-SB-5.0-6.0	SODIUM	J	95.7	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.3	PQL	mg/Kg	
	Zirconium	J	3.80	5.17	PQL	mg/Kg	
SL-143-SA7-SB-9.0-10.0	BORON	J	0.975	5.20	PQL	mg/Kg	J (all detects)
	TIN	J	3.03	10.4	PQL	mg/Kg	
	Zirconium	J	3.23	5.20	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5DS-SB-4.0-5.0	SELENIUM	J	0.154	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0268	0.108	PQL	mg/Kg	
SL-142-SA7-SB-2.0-3.0	ANTIMONY	J	0.102	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.130	0.408	PQL	mg/Kg	
	SILVER	J	0.0294	0.102	PQL	mg/Kg	
SL-142-SA7-SB-7.0-8.0	SELENIUM	J	0.362	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0484	0.105	PQL	mg/Kg	
SL-143-SA7-SB-5.0-6.0	ANTIMONY	J	0.154	0.209	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0555	0.104	PQL	mg/Kg	
	SELENIUM	J	0.197	0.418	PQL	mg/Kg	
	SILVER	J	0.0661	0.104	PQL	mg/Kg	
SL-143-SA7-SB-9.0-10.0	ANTIMONY	J	0.189	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.223	0.412	PQL	mg/Kg	
	SILVER	J	0.0815	0.103	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-142-SA7-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.31	1.0	PQL	mg/Kg	J (all detects)
SL-142-SA7-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)
SL-143-SA7-SB-5.0-6.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/31/2012 12:46:19 PM

ADR version 1.4.0.111

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Reporting Limit Outliers

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.81	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA7-SB-7.0-8.0	MERCURY	J	0.0231	0.0991	PQL	mg/Kg	J (all detects)
SL-143-SA7-SB-5.0-6.0	MERCURY	J	0.0081	0.104	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA7-SB-2.0-3.0	EFH (C12-C14)	J	0.56	1.2	PQL	mg/Kg	J (all detects)
	EFH (C15-C20)	J	1.0	1.2	PQL	mg/Kg	
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.2	1.1	PQL	mg/Kg	
SL-143-SA7-SB-5.0-6.0	EFH (C12-C14)	J	0.67	1.3	PQL	mg/Kg	J (all detects)
	EFH (C15-C20)	J	1.0	1.3	PQL	mg/Kg	
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.3	1.2	PQL	mg/Kg	
SL-143-SA7-SB-9.0-10.0	EFH (C15-C20)	J	0.50	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA7-SB-7.0-8.0	AROCLOR 1260	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.0	3.5	PQL	ug/Kg	

Method: 8260B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA7-SB-5.0-6.0	CHLOROFORM	J	0.14	4.5	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.78	4.5	PQL	ug/Kg	
	TOLUENE	J	0.21	4.5	PQL	ug/Kg	
SL-143-SA7-SB-9.0-10.0	CHLOROFORM	J	0.15	4.6	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.99	4.6	PQL	ug/Kg	
	TOLUENE	J	0.21	4.6	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE272

Laboratory: LL

EDD Filename: DE272_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA7-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	350	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA7-SB-2.0-3.0	BENZO(B)FLUORANTHENE	J	0.87	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.85	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	0.89	1.7	PQL	ug/Kg	
SL-142-SA7-SB-7.0-8.0	BENZO(A)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.77	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.76	1.7	PQL	ug/Kg	
	FLUORENE	J	0.92	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.90	1.7	PQL	ug/Kg	
	PYRENE	J	1.4	1.7	PQL	ug/Kg	
SL-143-SA7-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	19	PQL	ug/Kg	J (all detects)

Enclosure II

Level IV Validation Reports

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: Volatiles
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
TB-101911
EB-SA7-SB-101911

Introduction

This data review covers 2 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a Laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/25/11 (bc25c01)	4-Methyl-2-pentanone	27	All soil samples in SDG DE272	J (all detects) UJ (all non-detects)	A
10/25/11 (bc25c02)	Freon 133a Chlorotrifluoroethene	28 29	All soil samples in SDG DE272	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKB95	10/25/11	Methylene chloride Chloroform	0.76 ug/Kg 0.22 ug/Kg	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
SL-143-SA7-SB-5.0-6.0	Methylene chloride Chloroform	0.78 ug/Kg 0.14 ug/Kg	4.5U ug/Kg 4.5U ug/Kg
SL-143-SA7-SB-9.0-10.0	Methylene chloride Chloroform	0.99 ug/Kg 0.15 ug/Kg	4.6U ug/Kg 4.6U ug/Kg

Sample TB-101911 was identified as a trip blank. No volatile contaminants were found.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No volatile contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA7-SB-101911	10/19/11	Methylene chloride	5 ug/L	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-143-SA7-SB-5.0-6.0	Methylene chloride	0.78 ug/Kg	4.5U ug/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-143-SA7-SB-9.0-10.0	Methylene chloride	0.99 ug/Kg	4.6U ug/Kg

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D B95 (All soil samples in SDG DE272)	Freon 133a 1,1-Dichloroethene Freon 113	129 (78-120) 126 (73-123) 134 (60-126)	123 (78-120) - -	- - -	J (all detects) J (all detects) J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
Volatiles - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0	4-Methyl-2-pentanone Freon 133a Chlorotrifluoroethene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0	Freon 133a 1,1-Dichloroethene Freon 113	J (all detects) J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 TB-101911 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Volatiles - Laboratory Blank Data Qualification Summary - SDG DE272**

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE272	SL-143-SA7-SB-5.0-6.0	Methylene chloride Chloroform	4.5U ug/Kg 4.5U ug/Kg	A	B
DE272	SL-143-SA7-SB-9.0-10.0	Methylene chloride Chloroform	4.6U ug/Kg 4.6U ug/Kg	A	B

**Santa Susana Field Laboratory
Volatiles - Field Blank Data Qualification Summary - SDG DE272**

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE272	SL-143-SA7-SB-5.0-6.0	Methylene chloride	4.5U ug/Kg	A	F
DE272	SL-143-SA7-SB-9.0-10.0	Methylene chloride	4.6U ug/Kg	A	F

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 10/19/11
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration	A	% RSD ≤ 30, r ²
IV.	Continuing calibration/ICV	SW	10/CCV ≤ 25
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	SW	res LP
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	Δ	
XI.	Target compound identification	Δ	
XII.	Compound quantitation (RI)/LOQ/LODs	Δ	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	Δ	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	TB = 3 EB = 4

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

sal + water

1	SL-143-SA7-SB-5.0-6.0	11	VBLK B95	21		31
2	SL-143-SA7-SB-9.0-10.0	12	VBLK Y64	22		32
3	TB-101911	13		23		33
4	EB-SA7-SB-101911	14		24		34
5		15		25		35
6		16		26		36
7		17		27		37
8		18		28		38
9		19		29		39
10		20		30		40

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. GC/MS instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	/			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?			/	
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VII. Matrix spike/matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			/	
Was a MS/MSD analyzed every 20 samples of each matrix?			/	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			/	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
X. Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within + 30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Target Compound Identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Compound Quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Tentatively Identified Compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XIV. System Performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Overall Assessment of Data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XVI. Field Duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XVII. Field Blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC. 1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl chloride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethane	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN. <i>Chlorotrifluoroethene</i>
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N /N/A Were field blanks identified in this SDG?
 Y N /N/A Were target compounds detected in the field blanks?
 Blank units: ug/L Associated sample units: ug/kg
 Sampling date: 12/19/11
 Field blank type: (circle one) Field Blank / (Rinsate) Trip Blank / Other:

Associated Samples: 1, 2 (F)

Compound	Blank ID	Sample Identification	
	<u>4</u>	<u>1</u>	<u>2</u>
Methylene chloride	<u>5 ug/L</u>	<u>0.78/4.5</u>	<u>0.99/4.6</u>
Acetone			
Chloroform			
CRQL			

Blank units: _____ Associated sample units: _____
 Sampling date: _____
 Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification	
Methylene chloride			
Acetone			
Chloroform			
CRQL			

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
 Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$
 average RRF = sum of the RRFs / number of standards
 $\%RSD = 100 * (S/X)$
 A_x = Area of compound,
 C_x = Concentration of compound,
 S = Standard deviation of the RRFs
 X = Mean of the RRFs
 A_{is} = Area of associated internal standard
 C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				RRF (SD std)	RRF (SD std)	RRF (SD std)	RRF (SD std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	1CAL	7/21/11	C (1st internal standard)	0.3422	0.3422	0.3505	0.3505	9	9	0.3505	9
			EE (2nd internal standard)	1.8304	1.8304	1.7156	1.7156	7	7	1.7156	7
			JJJ (3rd internal standard)	1.5137	1.5137	1.4916	1.4916	6	6	1.4916	6
			(4th internal standard)								
2	1CAL	9/27/11	C (1st internal standard)	0.4337	0.4337	0.4274	0.4274	8	8	0.4274	8
			EE (2nd internal standard)	2.2335	2.2335	2.1530	2.1530	3	3	2.1530	3
			JJJ (3rd internal standard)	1.8583	1.8583	1.7997	1.7997	4	4	1.7997	4
			(4th internal standard)								
3			(1st internal standard)								
			(2nd internal standard)								
			(3rd internal standard)								
			(4th internal standard)								
4			(1st internal standard)								
			(2nd internal standard)								
			(3rd internal standard)								
			(4th internal standard)								

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compound identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
 $\text{RRF} = (A_x)(C_b) / (A_b)(C_x)$
 Where: ave. RRF = initial calibration average RRF
 RRF = continuing calibration RRF
 A_x = Area of compound,
 C_x = Concentration of compound,
 A_b = Area of associated internal standard
 C_b = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv 11:47	10/25/11	C	0.3505	0.3337	0.3337	5	5
			EE	1.7156	1.7744	1.7744	3	3
			JJJ	1.4916	1.4752	1.4752	1	1
			(4th internal standard)					
2	ccv 9:46	10/25/11	C	0.4274	0.4678	0.4678	9	9
			EE	2.1530	2.1149	2.1149	2	2
			JJJ	1.7997	1.6053	1.6053	11	11
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of tl recalculated results.

Surrogate Results Verification

Reviewer: FT
 2nd reviewer: 

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	50.0	51.533	103	103	0
1,2-Dichloroethane-d4	↓	53.657	107	107	↓
Toluene-d8	↓	49.225	98	98	↓
Bromofluorobenzene	↓	48.225	96	96	↓

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: 1,4-Dioxane
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
TB-101911
EB-SA7-SB-101911

Introduction

This data review covers 2 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B using Selected Ion Monitoring (SIM) for 1,4-Dioxane.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for 1,4-Dioxane.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% for 1,4-Dioxane.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for 1,4-Dioxane.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No 1,4-dioxane was found in the method blanks.

Sample TB-101911 was identified as a trip blank. No 1,4-dioxane was found.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No 1,4-dioxane was found.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
1,4-Dioxane - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 TB-101911 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
1,4-Dioxane - Field Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

METHOD: GC/MS 1,4-Dioxane (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 10/19/11
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration	Δ	% PSD ≤ 30,
IV.	Continuing calibration/ICV	Δ	100% CV ≤ 25
V.	Blanks	Δ	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	client specific
VIII.	Laboratory control samples	Δ	LCSD
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	Δ	
XI.	Target compound identification	Δ	
XII.	Compound quantitation (BL/LOQ/LODs)	Δ	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	Δ	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	TB = 3 EB = 4

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

soil + water

1	SL-143-SA7-SB-5.0-6.0	5	11	VBLKEB2	21	31
2	SL-143-SA7-SB-9.0-10.0	↓	12	VBLKEB1	22	32
3	TB-101911	w	13		23	33
4	EB-SA7-SB-101911	↓	14		24	34
5			15		25	35
6			16		26	36
7			17		27	37
8			18		28	38
9			19		29	39
10			20		30	40

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples analyzed within the 12 hour clock criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Was a curve fit used for evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Matrix spike/Matrix spike duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Regional Chain Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
X. Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within + 30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Target Compound Identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Compound Quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Tentatively Identified Compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XIV. System Performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Overall Assessment of Data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XVI. Field Duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XVII. Field Blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC. 1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl chloride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethane	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethane**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethane	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethane	KKKK. Propionitrile
J. 1,2-Dichloroethane, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBB. tert-Amyl methyl ether	VVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_b)/(A_b)(C_x)$
 average RRF = sum of the RRFs/number of standards
 $\%RSD = 100 * (S/X)$
 A_x = Area of compound,
 C_x = Concentration of compound,
 S = Standard deviation of the RRFs
 X = Mean of the RRFs
 A_b = Area of associated internal standard
 C_b = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				RRF (S std)	RRF (S std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD		
1	1CAL	6/17/11	1,4-Dioxane (1st internal standard)	1.4025	1.4025	1.4910	1.4910	6	6		6
			(2nd internal standard)								
			(3rd internal standard)								
			(4th internal standard)								
2	1CAL	6/16/11	↓ (1st internal standard)	1.2847	1.2847	1.3554	1.3554	4	4		4
			(2nd internal standard)								
			(3rd internal standard)								
			(4th internal standard)								
3			(1st internal standard)								
			(2nd internal standard)								
			(3rd internal standard)								
			(4th internal standard)								
4			(1st internal standard)								
			(2nd internal standard)								
			(3rd internal standard)								
			(4th internal standard)								

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculate results.

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compound identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$ Where: ave. RRF = initial calibration average RRF
 $\text{RRF} = (A_x) / (C_x) / (A_{is}) / (C_{is})$ RRF = continuing calibration RRF
 A_x = Area of compound, A_{is} = Area of associated internal standard
 C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	00225001	10/26/11	1,4-Dioxane (1st internal standard)	1.4910	1.4360	1.4360	9.59	7.59
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
2	0024051	10/24/11	1,4-Dioxane (1st internal standard)	1.3554	1.3438	1.3438	9.91	9.91
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

Reviewer: FT
 2nd reviewer: 

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8	10	9.331	93	93	0
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: Semivolatiles
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-016-SA5DS-SB-4.0-5.0
SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-016-SA5DS-SB-4.0-5.0MS
SL-016-SA5DS-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No semivolatile contaminants were found.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-016-SA5DS-SB-4.0-5.0MS/MSD (SL-016-SA5DS-SB-4.0-5.0)	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 3,3'-Dichlorobenzidine	- - -	- - -	104 (≤30) 53 (≤30) 33 (≤30)	J (all detects) J (all detects) J (all detects)	A
SL-016-SA5DS-SB-4.0-5.0MS/MSD (SL-016-SA5DS-SB-4.0-5.0)	Benzidine	0 (35-141)	0 (35-141)	-	J (all detects) R (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
297WILCS/D (All water samples in SDG DE272)	Pentachlorophenol	111 (53-110)	112 (53-110)	-	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-016-SA5DS-SB-4.0-5.0	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 3,3'-Dichlorobenzidine	J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE272	SL-016-SA5DS-SB-4.0-5.0	Benzidine	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE272	EB-SA7-SB-101911	Pentachlorophenol	J (all detects)	P	Laboratory control samples (%R) (L)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD = 30, 1 ²
IV.	Continuing calibration/ICV	A	1CV / CV = 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	1CS / D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation (RL/LOQ/LODs)	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	EB = 4

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:
 SOIL + water

11	SL-016-SA5DS-SB-4.0-5.0 S	111	SBLKLA 295	21		31	
21	SL-143-SA7-SB-5.0-6.0	122	SBLKW 1297	22		32	
31	SL-143-SA7-SB-9.0-10.0	13		23		33	
41	SL-142-SA7-SB-2.0-3.0	14		24		34	
51	SL-142-SA7-SB-7.0-8.0	15		25		35	
62	EB-SA7-SB-101911 W	16		26		36	
7	# 1MS	17		27		37	
8	# 1MS 10	18		28		38	
9		19		29		39	
10		20		30		40	

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. GC/MS Instrument performance criteria				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of > 0.990 ?	/			
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	/			
IV. Continuing Calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	/			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VII. Matrix spikes/duplicate spikes				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
X. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
X. Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within + 30 seconds from the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
X. Relative Retention Times				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Response Factors				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Reference Spectra				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XIII. System Performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. Overall Assessment				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Field Duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XVI. Field Blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WWW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$
 average RRF = sum of the RRFs/number of standards
 $\%RSD = 100 * (S/X)$
 A_x = Area of compound,
 C_x = Concentration of compound,
 S = Standard deviation of the RRFs,
 X = Mean of the RRFs
 A_{is} = Area of associated internal standard
 C_{is} = Concentration of internal standard
 X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				RRF (50 std)	RRF (50 std)	RRF (50 std)	RRF (50 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	CAL	10/26/11	Phenol (1st internal standard)	2.843	2.843	2.600	2.600	8	8		
			2-nitrophenol (2nd internal standard)	0.198	0.198	0.192	0.192	6	6		
			2,4-dinitrophenol (3rd internal standard)	0.411	0.411	0.391	0.391	10	10		
			Pentachlorophenol (4th internal standard)	0.127	0.127	0.123	0.123	9	9		
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.674	0.674	0.667	0.667	4	4		
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.579	1.579	1.521	1.521	8	8		
2			Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								
3			Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$ Where: ave. RRF = initial calibration average RRF
 RRF = $(A_x)(C_b) / (A_b)(C_x)$ RRF = continuing calibration RRF
 A_x = Area of compound, A_b = Area of associated internal standard
 C_x = Concentration of compound, C_b = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported		Recalculated	
					RRF (CC)	%D	RRF (CC)	%D
1	ceV	10/26/11	Phenol (1st internal standard) 2-nitrophenol (2nd internal standard) 2-nitrophenol (3rd internal standard) Fluorene (3rd internal standard) Pentachlorophenol (4th internal standard) Bis(2-ethylhexyl)phthalate (5th internal standard) 2-nitrophenol (2nd internal standard) 2-nitrophenol (3rd internal standard)	2.600	2.427	2.427	7	7
				0.192	0.188	0.188	2	2
				0.391	0.415	0.415	4	6
				0.123	0.124	0.124	1	1
				0.667	0.721	0.721	8	8
				1.521	1.473	1.473	3	3
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

Reviewer: FT

2nd reviewer: A

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	79.596	80	80	0
2-Fluorobiphenyl	↓	84.683	85	85	
Terphenyl-d14	↓	96.835	97	97	
Phenol-d5	200	171.177	86	86	
2-Fluorophenol	↓	179.832	90	90	
2,4,6-Tribromophenol	↓	167.728	84	84	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$ Where: SSC = Spiked sample concentration SC = Sample concentration
 SA = Spike added

RPD = $|MSC - MSC1 * 2 / (MSC + MSC1)|$ MSC = Matrix spike concentration MSC1 = Matrix spike duplicate concentration

MS/MSD samples: 7 + 8

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)		Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	MS	MSD	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol	1655.63	1655.63	ND		1585.17	1651.3	96	96	100	100	4	4
N-Nitroso-di-n-propylamine					1395.48	1442.08	84	84	87	87	3	3
4-Chloro-3-methylphenol					1553.9	1642.8	94	94	99	99	6	6
Acenaphthene					1516.91	1603.72	92	92	97	97	6	6
Pentachlorophenol					1582.27	1446.47	96	96	87	87	9	9
Pyrene					1522.82	1590.32	92	92	96	96	4	4

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: Semivolatiles
Validation Level: Level IV
Laboratory: Lancaster laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-016-SA5DS-SB-4.0-5.0
SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD

Introduction

This data review covers 7 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKWE297	10/24/11	Di-n-octylphthalate	0.094 ug/L	EB-SA7-SB-101911

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
EB-SA7-SB-101911	Di-n-octylphthalate	0.096 ug/L	1.1U ug/L

Sample EB-SA7-SB-101911 was identified as an equipment blank. No semivolatile contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA7-SB-101911	10/19/11	Di-n-butylphthalate Diethylphthalate Bis(2-ethylhexyl)phthalate Naphthalene Di-n-octylphthalate	0.27 ug/L 0.19 ug/L 0.16 ug/L 0.039 ug/L 0.096 ug/L	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
297WELCS/D (All water samples in SDG DE272)	Dimethylphthalate	10 (40-119)	10 (40-119)	-	J (all detects) UJ (all non-detects)	P
	Butylbenzylphthalate	22 (40-138)	21 (40-138)	-	J (all detects) UJ (all non-detects)	

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	EB-SA7-SB-101911	Dimethylphthalate Butylbenzylphthalate	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE272**

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE272	EB-SA7-SB-101911	Di-n-octylphthalate	1.1U ug/L	A	B

**Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

SVOA

Date: 1/24/12

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤ 30 , r^2
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 25
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	SW	LOS ID
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation (LOQ/LODs)	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	SW	EB = 6

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

soil + water

1	SL-016-SA5DS-SB-4.0-5.0	11	SBLK 2095	21	31
2	SL-143-SA7-SB-5.0-6.0	12	SBLK WE097	22	32
3	SL-143-SA7-SB-9.0-10.0	13		23	33
4	SL-142-SA7-SB-2.0-3.0	14		24	34
5	SL-142-SA7-SB-7.0-8.0	15		25	35
6	EB-SA7-SB-101911	16		26	36
7	#0MS	17		27	37
8	#0MSD	18		28	38
9		19		29	39
10		20		30	40

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical Holding Times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS Instrument Performance				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples analyzed within the 12 hour clock criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Initial Calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing Calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VI. Surrogate Spikes				
Were all surrogate %R within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Matrix Spike/Matrix Spike Duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIII. Laboratory Control Samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
X. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XI. Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within + 30 seconds from the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Relative Retention Times				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Compound Identification				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. Reference Spectrum				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XV. System Performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XVI. Overall Assessment				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XVII. Field Duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XVIII. Field Blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indenc(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WWW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_b)/(A_b)(C_x)$
 average RRF = sum of the RRFs/number of standards
 %RSD = $100 * (S/X)$

A_x = Area of compound,
 C_x = Concentration of compound,
 S = Standard deviation of the RRFs,
 X = Mean of the RRFs

A_b = Area of associated internal standard
 C_b = Concentration of internal standard
 X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				RRF (/ std)	RRF (/ std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD		
1	109L	10/6/11	Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)	1.114	1.114	1.099	1.099	2	2		
			Fluorene (3rd internal standard)	1.388	1.388	1.340	1.340	6	6		
			Anthracene (4th internal standard)	1.202	1.202	1.146	1.146	9	9		
			Pentachlorophenol (5th internal standard)	1.275	1.275	1.252	1.252	3	3		
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.187	1.187	1.151	1.151	7	7		
2			Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								
3			Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$ Where: ave. RRF = initial calibration average RRF
 RRF = $(A_x)(C_{is}) / (A_{is})(C_x)$ RRF = continuing calibration RRF
 A_x = Area of compound, A_{is} = Area of associated internal standard
 C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported		Recalculated	
					RRF (CC)	%D	RRF (CC)	%D
1	CON 6-18	10/25/11	Phenol (1st internal standard)		1.111	1	1.111	1
			Naphthalene (2nd internal standard)	1.099	1.380	3	1.380	3
			Fluorene (3rd internal standard)	1.144	1.224	7	1.224	7
			Pentachlorophenol (4th internal standard)	1.252	1.325	6	1.325	6
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.151	1.191	4	1.191	4
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

Reviewer: FT

2nd reviewer: A

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	1.0	0.791	79	79	0
2-Fluorobiphenyl	↓	0.688	69	69	↓
Terphenyl-d14	↓	0.879	88	88	↓
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SC/SA)$ Where: SSC = Spike concentration
SA = Spike added

RPD = $1/2 * (LCS - LCSDC) / (LCS + LCSDC) * 100$ LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: 095 LC LCS

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS		LCSD		Percent Recovery		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Phenol														
N-Nitroso-di-n-propylamine														
4-Chloro-3-methylphenol														
Acenaphthene	33.33	NA	29.8	NA	89	89								
Pentachlorophenol	✓	NA	31.52	NA	95	95								
Pyrene														

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 31, 2012
Matrix: Soil/Water
Parameters: N-Nitrosodimethylamine
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
EB-SA7-SB-101911-95
TB-101911 (water)
TB-101911 (sand)
EB-SA7-SB-101911-99
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD

Introduction

This data review covers 5 soil samples and 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1625C for N-Nitrosodimethylamine.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check is not required for by this method.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% .

The percent differences (%D) of the second source calibration standard were less than or equal to 30.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No N-nitrosodimethylamine was found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKWC297	10/24/11	N-Nitrosodimethylamine	0.887 ng/L	EB-SA7-SB-101911-95 TB-101911 (water) EB-SA7-SB-101911-99

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
EB-SA7-SB-101911-95	N-Nitrosodimethylamine	3.66 ug/L	3.66U ug/L

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
TB-101911 (water)	N-Nitrosodimethylamine	0.860 ug/L	0.860U ug/L
EB-SA7-SB-101911-99	N-Nitrosodimethylamine	4.55 ug/L	4.55U ug/L

Samples TB-101911 (water) and TB-101911 (sand) were identified as trip blanks. No N-nitrosodimethylamine was found in the method blanks with the following exceptions:

Trip Blank ID	Sampling Date	Compound	Concentration	Associated Samples
TB-101911 (water)	10/19/11	N-Nitrosodimethylamine	0.860 ng/L	EB-SA7-SB-101911-95 EB-SA7-SB-101911-99

Samples EB-SA7-SB-101911-95 and EB-SA7-SB-101911-99 were identified as equipment blanks. No N-nitrosodimethylamine was found in the method blanks with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA7-SB-101911-95	10/19/11	N-Nitrosodimethylamine	3.66 ng/L	All soil samples in SDG DE272
EB-SA7-SB-101911-99	10/19/11	N-Nitrosodimethylamine	4.55 ng/L	All soil samples in SDG DE272

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
EB-SA7-SB-101911-95	N-Nitrosodimethylamine	3.66 ng/L	3.66U ng/L

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
N-Nitrosodimethylamine - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 EB-SA7-SB-101911-95 TB-101911 (water) TB-101911 (sand) EB-SA7-SB-101911-99	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
N-Nitrosodimethylamine - Laboratory Blank Data Qualification Summary - SDG DE272**

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE272	EB-SA7-SB-101911-95	N-Nitrosodimethylamine	3.66U ug/L	A	B
DE272	TB-101911 (water)	N-Nitrosodimethylamine	0.860U ug/L	A	B
DE272	EB-SA7-SB-101911-99	N-Nitrosodimethylamine	4.55U ug/L	A	B

**Santa Susana Field Laboratory
N-Nitrosodimethylamine - Field Blank Data Qualification Summary - SDG DE272**

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE272	EB-SA7-SB-101911-95	N-Nitrosodimethylamine	3.66U ng/L	A	T

LDC #: 26979H2c **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE272 Level IV

Laboratory: Lancaster Laboratories

Date: 1/22/12

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS N-Nitrosodimethylamine (EPA Method 1625C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 10/19/11
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration	Δ	%RSD ≤ 30
IV.	Continuing calibration/ICV	Δ	ICV ≤ 30 CV ≤ 20
V.	Blanks	SW	
VI.	Surrogate spikes	Δ	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	Δ	ICS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	Δ	
XI.	Target compound identification	Δ	
XII.	Compound quantitation (RI)/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	Δ	
XV.	Overall assessment of data	Δ	
XVI.	Field duplicates	N	
XVII.	Field blanks	SW	EB = 3, 6 TB = 4, 5

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

soil + water

1	SL-143-SA7-SB-5.0-6.0	S	11	SBLKLB298	21	31
2	SL-143-SA7-SB-9.0-10.0	↓	12	SBLKWC297	22	32
3	EB-SA7-SB-101911-95	w	13		23	33
4	TB-101911 (water)	w	14		24	34
5	TB-101911 (sand)	S	15		25	35
6	EB-SA7-SB-101911-99	w	16		26	36
7	#1 MS		17		27	37
8	#1 MS 10		18		28	38
9			19		29	39
10			20		30	40

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS Instrument Performance				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples analyzed within the 12 hour clock criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Initial Calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Was a curve fit used for evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing Calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all percent differences (%D) ≤ ^W 25% and relative response factors (RRF) ≥ 0.05?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VI. Surrogate Spikes				
Were all surrogate %R within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Matrix Spike/MS/MSD				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIII. Laboratory Control Samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?			<input checked="" type="checkbox"/>	
X. Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	<input checked="" type="checkbox"/>			
Were retention times within + 30 seconds from the associated calibration standard?	<input checked="" type="checkbox"/>			
XI. Relative Retention Times				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>			
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>			
XII. Quantification				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>			
XIII. Reference Spectra				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			<input checked="" type="checkbox"/>	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			<input checked="" type="checkbox"/>	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			<input checked="" type="checkbox"/>	
XIV. System Performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>			
XV. Overall Assessment				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>			
XVI. Field Duplicates				
Field duplicate pairs were identified in this SDG.		<input checked="" type="checkbox"/>		
Target compounds were detected in the field duplicates.			<input checked="" type="checkbox"/>	
XVII. Field Blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>			
Target compounds were detected in the field blanks.	<input checked="" type="checkbox"/>			

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x/C_x)/(A_{is}/C_{is})$
 average RRF = sum of the RRFs/number of standards
 $\%RSD = 100 * (S/X)$

A_x = Area of compound,
 C_x = Concentration of compound,
 S = Standard deviation of the RRFs,
 X = Mean of the RRFs

A_{is} = Area of associated internal standard
 C_{is} = Concentration of internal standard
 X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				RRF (25 std)	RRF (25 std)	RRF (25 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD	
1	ICAL	10/31/11	Phenol (1st internal standard) NDMA	0.909	0.909	0.913	0.913	14	14		14
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								
2	ICAL	11/16/11	Phenol (1st internal standard) NDMA	0.977	0.977	1.018	1.018	15	15		15
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								
3			Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
 $\text{RRF} = (A_x)(C_b) / (A_b)(C_x)$

Where: ave. RRF = initial calibration average RRF
 RRF = continuing calibration RRF

A_x = Area of compound,
 C_x = Concentration of compound,
 A_b = Area of associated internal standard
 C_b = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported		Recalculated		
					RRF (CC)	%D	RRF (CC)	%D	
1	CCV 13:00 AK0062	11/2/11	Phenol (1st internal standard) NDMA Naphthalene (2nd internal standard) Fluorene (3rd internal standard)	0.97301	0.75395	1.95884	0.95395	1.95884	1.95884
	CCV 16:01 AK0069	11/2/11	Pentachlorophenol (4th internal standard) NDMA Bis(2-ethylhexyl)phthalate (5th internal standard) Benzo(a)pyrene (6th internal standard)	↓	1.03912	6.79395	1.03912	6.79395	6.79395
2	CCV 18:35 AK0077	11/2/11	Phenol (1st internal standard) NDMA Naphthalene (2nd internal standard) Fluorene (3rd internal standard) Pentachlorophenol (4th internal standard) Bis(2-ethylhexyl)phthalate (5th internal standard) Benzo(a)pyrene (6th internal standard)	↓	1.07380	10.35815	1.07380	10.35815	10.35815
3			Phenol (1st internal standard) Naphthalene (2nd internal standard) Fluorene (3rd internal standard) Pentachlorophenol (4th internal standard) Bis(2-ethylhexyl)phthalate (5th internal standard) Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5 <i>NDMA - d6</i>	<i>25</i>	<i>24.635</i>	<i>99</i>	<i>99</i>	<i>0</i>
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$ Where: SSC = Spiked sample concentration SC = Sample concentration
 SA = Spike added
 RPD = $100 * |MSC - MSC| * 2 / (MSC + MSC)$ MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 1 + 8

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)		Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	MS	MSD	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol	825.08	825.08	ND		797.73	791.39	97	97	91	91	4	6
N,N-Diethylpropylamine												
4-Chloro-3-methylphenol												
Acenaphthene												
Pentachlorophenol												
Pyrene												

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SC/SA)$ Where: SSC = Spike concentration
 SA = Spike added

RPD = $100 * (LCS - LCSDC) / (LCS + LCSDC)$ LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: WS 501K

Compound	Spike Added (ng/kg)		Spike Concentration (ng/kg)		LCS		LCSD		Percent Recovery		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Phenol NDMA	833.33	NA	805.24	NA	97	97	NA	NA						
N-Nitroso-di-n-propylamine														
4-Chloro-3-methylphenol														
Acenaphthene														
Pentachlorophenol														
Pyrene														

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: Polychlorinated Biphenyls
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-016-SA5DS-SB-4.0-5.0
SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-016-SA5DS-SB-4.0-5.0MS
SL-016-SA5DS-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No polychlorinated biphenyl contaminants were found.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported RLs

All compound quantitation and RLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SL-142-SA7-SB-7.0-8.0	Aroclor-5460	61.52	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
 Polychlorinated Biphenyls - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-142-SA7-SB-7.0-8.0	Aroclor-5460	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
 Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
 Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 10/19/11
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	Δ	% RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/LCV ≤ 20
V.	Blanks	Δ	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	Δ	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
X.	Florasil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation/RL/LOQ/LODs	SW	
XIV.	Overall assessment of data	Δ	
XV.	Field duplicates	N	
XVI.	Field blanks	ND	EB = 6

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: soil + water

1	SL-016-SA5DS-SB-4.0-5.0 S	11		21		31	
2	SL-143-SA7-SB-5.0-6.0	12		22		32	
3	SL-143-SA7-SB-9.0-10.0	13		23		33	
4	SL-142-SA7-SB-2.0-3.0	14		24		34	
5	SL-142-SA7-SB-7.0-8.0	15		25		35	
6	EB-SA7-SB-101911 w	16		26		36	
7	#1MS	17		27		37	
8	#1MSD	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

DC #: 26979H3b
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration:				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation?		/		
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?			/	
Were the RT windows properly established?	/			
IV. Continuing calibration:				
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks:				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	

_DC #: 26979H3b
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FJ
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			/	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		

LDC #: 26979H3b
 SDG #: per work

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: EA

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
- average CF = sum of the CF/number of standards
- %RSD = $100 \cdot (S/X)$
- A = Area of compound,
- C = Concentration of compound,
- S = Standard deviation of the CF
- X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (20 σ std)	CF (20 σ std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	ICAL IP253	10/31/11	Aracolor 1260-1 MR-1 6 MR-2	121	121	123	123	8.9	8.9	8.9	8.9
2				47	47	49	49	8.6	8.6	8.6	8.6
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979 H3b
 SDG #: new cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
 Reviewer: FD
 2nd Reviewer: CA

METHOD: GC _____ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
 CF = A/C CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	cen 20:26	10/21/11	Aroclor 1260 MR-1	200.20	195.74	2.2	195.74	2.2
			MR-2	200.20	199.45	0.1	199.45	0.1
2	ccu 0:42	11/01/11	↓	200.0	196.26	1.9	196.26	1.9
				200.0	198.76	0.6	198.76	0.6
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
 Surrogate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
TCMX	MR1	1.041	0.742467	71	71	0
PCB	MR2	1.041	0.822786	79	79	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * ((SSC - SC) / SA)$ Where SSC = Spiked sample concentration SC = Sample concentration
 SA = Spike added
 MS = Matrix spike
 MSD = Matrix spike duplicate

RPD = $(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD)) * 100$

MS/MSD samples: 7-8

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration		Matrix spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
PCB-1260	16.67	14.67	ND	15.99	15.61	96	96	94	94	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times \frac{SSC-SC}{SA}$ Where: SSC = Spiked sample concentration SC = Concentration
 RPD = $100 \times \frac{LCS - LCSD}{LCS + LCSD}$ SA = Spike added
 LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS 1D

Compound	Spike Added (ug/L)		Spiked Sample Concentration		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
<u>PCB-1260</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5.2</u>	<u>100</u>	<u>100</u>	<u>104</u>	<u>104</u>	<u>4</u>	<u>4</u>

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
 Sample Calculation Verification

LDC #: 269779H3b
 SDG #: [Signature]

METHOD: GC HPLC

Were all reported results recalculated and verified for all level IV samples?
 Were all recalculated results for detected target compounds within 10% of the reported results?

Y N
 N/A N/A

Concentration = $\frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$
 Example: Sample ID: # 5 Compound Name: 1254

$\frac{94}{1254-1 - 30128.71875 (2) - 10.684} = 0.947$
 $= 5.9 \mu g/kg$

A= Area or height of the compound to be measured
 Fv= Final Volume of extract
 Df= Dilution Factor
 RF= Average response factor of the compound
 in the initial calibration
 Vs= Initial volume of the sample
 Ws= Initial weight of the sample
 %S= Percent Solid

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications
	1254	Aracloz			
	1254-1	30128.71875 (2) - 10.684	1254-1	10.684	
		94 (60)	-2	2.48205	
			-4	3.778207	
				5.63	

Comments:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 23, 2012
Matrix: Soil/Water
Parameters: Metals
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-016-SA5DS-SB-4.0-5.0
SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-016-SA5DS-SB-4.0-5.0MS
SL-016-SA5DS-SB-4.0-5.0MSD
SL-016-SA5DS-SB-4.0-5.0DUP

Introduction

This data review covers 8 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, 7471A, and 7470A for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Mercury, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, and Zirconium.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Aluminum Calcium Magnesium Phosphorus Tin	6.955 mg/Kg 4.012 mg/Kg 1.566 mg/kg 0.992 mg/Kg 1.312 mg/Kg	All soil samples in SDG DE272
ICB/CCB	Aluminum Antimony Copper Magnesium Thallium Titanium	69.2 ug/L 0.38 ug/L 0.20 ug/L 41.8 ug/L 0.10 ug/L 0.85 ug/L	All soil samples in SDG DE272
PB (prep blank)	Boron Calcium Iron Magnesium Strontium	2.440 ug/L 76.480 ug/L 24.570 ug/L 17.090 ug/L 0.280 ug/L	All water samples in SDG DE272
ICB/CCB	Aluminum Calcium Lithium Phosphorus Titanium	105 ug/L 116 ug/L 3.5 ug/L 5.5 ug/L 0.24 ug/L	All water samples in SDG DE272

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-016-SA5DS-SB-4.0-5.0	Antimony Tin	0.24 mg/Kg 3.0 mg/Kg	0.24U mg/Kg 3.0U mg/Kg
SL-143-SA7-SB-5.0-6.0	Antimony Tin	0.15 mg/Kg 2.8 mg/Kg	0.15U mg/Kg 2.8U mg/Kg
SL-143-SA7-SB-9.0-10.0	Antimony Tin	0.19 mg/Kg 3.0 mg/Kg	0.19U mg/Kg 3.0U mg/Kg
SL-142-SA7-SB-2.0-3.0	Antimony Tin	0.10 mg/Kg 2.8 mg/Kg	0.10U mg/Kg 2.8U mg/Kg
SL-142-SA7-SB-7.0-8.0	Tin	2.7 mg/Kg	2.7U mg/Kg
EB-SA7-SB-101911	Boron Strontium Titanium	8.8 ug/L 0.56 ug/L 0.63 ug/L	8.8U ug/L 0.56U ug/L 0.63U ug/L

Sample EB-SA7-SB-101911 was identified as an equipment blank. No metal contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
EB-SA7-SB-101911	10/19/11	Boron Lead Phosphorus Strontium Titanium	8.8 ug/L 0.12 ug/L 5.5 ug/L 0.56 ug/L 0.63 ug/L	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-143-SA7-SB-9.0-10.0	Boron	0.98 mg/Kg	0.98U mg/Kg
SL-142-SA7-SB-2.0-3.0	Boron	1.6 mg/Kg	1.6U mg/Kg

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-142-SA7-SB-7.0-8.0	Boron	0.92 mg/Kg	0.92U mg/Kg

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-016-SA5DS-SB-4.0-5.0MS/MSD (All soil samples in SDG DE272)	Antimony	49 (75-125)	57 (75-125)	-	J (all detects) UJ (all non-detects)	A
SL-016-SA5DS-SB-4.0-5.0MS/MSD (All soil samples in SDG DE272)	Arsenic	148 (75-125)	161 (75-125)	-	J (all detects)	A
	Chromium	-	149 (75-125)	-	J (all detects)	
	Copper	127 (75-125)	133 (75-125)	-	J (all detects)	
	Lead	146 (75-125)	153 (75-125)	-	J (all detects)	
	Nickel	135 (75-125)	142 (75-125)	-	J (all detects)	
SL-011-SA3-SB-4.0-5.0 (All soil samples in SDG DE272)	Phosphorus	-	258 (75-125)	-	J (all detects)	A
SL-011-SA3-SB-4.0-5.0 (All soil samples in SDG DE272)	Phosphorus	-	-	39 (≤20)	J (all detects) UJ (all non-detects)	A

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
SL-016-SA5DS-SB-4.0-5.0DUP (All soil samples in SDG DE272)	Lead	21 (≤20)	-	J (all detects) UJ (all non-detects)	A
	Arsenic	21 (≤20)	-	J (all detects) UJ (all non-detects)	

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met with the following exceptions:

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
SL-016-SA5DS-SB-4.0-5.0	Barium Chromium Cobalt Lead Nickel Vanadium	14 (≤10) 26 (≤10) 20 (≤10) 13 (≤10) 15 (≤10) 27 (≤10)	All soil samples in SDG DE272	J (all detects) UJ (all non-detects)	A

XII. Sample Result Verification

All sample result verifications were acceptable.

All metals reported below the RL and above the MDL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE272	All analytes reported below the RL and above the MDL.	J (all detects)	A

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
Metals - Data Qualification Summary - SDG DE272**

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Antimony	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Arsenic Chromium Copper Lead Nickel Phosphorus	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Phosphorus	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (E)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Lead Arsenic	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Barium Chromium Cobalt Lead Nickel Vanadium	J (all detects) UJ (all non-detects)	A	ICP serial dilution (%D) (A)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

**Santa Susana Field Laboratory
Metals - Laboratory Blank Data Qualification Summary - SDG DE272**

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE272	SL-016-SA5DS-SB-4.0-5.0	Antimony Tin	0.24U mg/Kg 3.0U mg/Kg	A	B
DE272	SL-143-SA7-SB-5.0-6.0	Antimony Tin	0.15U mg/Kg 2.8U mg/Kg	A	B

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE272	SL-143-SA7-SB-9.0-10.0	Antimony Tin	0.19U mg/Kg 3.0U mg/Kg	A	B
DE272	SL-142-SA7-SB-2.0-3.0	Antimony Tin	0.10U mg/Kg 2.8U mg/Kg	A	B
DE272	SL-142-SA7-SB-7.0-8.0	Tin	2.7U mg/Kg	A	B
DE272	EB-SA7-SB-101911	Boron Strontium Titanium	8.8U ug/L 0.56U ug/L 0.63U ug/L	A	B

**Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE272**

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE272	SL-143-SA7-SB-9.0-10.0	Boron	0.98U mg/Kg	A	F
DE272	SL-142-SA7-SB-2.0-3.0	Boron	1.6U mg/Kg	A	F
DE272	SL-142-SA7-SB-7.0-8.0	Boron	0.92U mg/Kg	A	F

LDC #: 26979H4

VALIDATION COMPLETENESS WORKSHEET

Date: 1-23-12

SDG #: DE272

Level IV

Page: 6 of 1

Laboratory: Lancaster Laboratories

Reviewer: CL

2nd Reviewer: ✓

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

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The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	SW	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	Not utilized
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	SW	EBFB

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: Soil/Water

1	SL-016-SA5DS-SB-4.0-5.0	11		21		31	
2	SL-143-SA7-SB-5.0-6.0	12		22		32	
3	SL-143-SA7-SB-9.0-10.0	13		23		33	
4	SL-142-SA7-SB-2.0-3.0	14		24		34	
5	SL-142-SA7-SB-7.0-8.0	15		25		35	
6	EB-SA7-SB-101911	16	N	26		36	
7	(X1) MS	17		27		37	
8	MSD	18		28		38	
9	DUP	19		29		39	
10		20		30		40	

Notes: _____

Method:Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	/			
Were %RSD of isotopes in the tuning solution $\leq 5\%$?	/			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	/			
Were the proper number of standards used?	/			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	/			
Were all initial calibration correlation coefficients > 0.995 ?	/			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	/			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	/			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		/		
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL$ ($\pm 2X RL$ for soil) was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $< 5X$ the RL.		/		
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	/			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			/	
Do all applicable analyses have duplicate injections? (Level IV only)			/	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			/	
Were analytical spike recoveries within the 85-115% QC limits?			/	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL (ICP/MS)?	/			
Were all percent differences (%Ds) < 10%?	/			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		/		
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	/			
If the %Rs were outside the criteria, was a reanalysis performed?	/			
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target analytes were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target analytes were detected in the field blanks.	/			

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 100x x MS; 2x dil

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: All Soil

Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2	3	4	5
Al		6.955	69.2	34.78					
Sb			0.38	0.38	0.24	0.15	0.19	0.10	
Ca		4.012		20.06					
Cu			0.20	0.2					
Mg		1.566	41.8	20.9					
P		0.992		4.96					
Sn		1.312		6.56	3.0	2.8	3.0	2.8	2.7
Tl			0.10	0.1					
Ti			0.85	0.425					

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All Water

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	6
Al			105	525	
B		2.440		12.2	8.8
Ca		76.480	116	580	
Fe		24.570		122.9	
Li			3.5	17.5	
Mg		17.090		85.45	
P			5.5	27.5	
Sr		0.280		1.4	0.56
Ti			0.24	1.2	0.63

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
 Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated		Reported		Acceptable (Y/N)
					%R	%R	%R	%R	
ICV	ICP (Initial calibration)	Fe	28797.54	30000	96.0	96.0	96.0	Y	
↓	ICPMS (Initial calibration)	Mn	51.77	50	103.5	103.5	103.5	Y	
↓	CVAA (Initial calibration)	H5	2.46	2.5	98.4	98.4	98.4	Y	
CCV	ICP (Continuing calibration)	Sr	502.37	500	100.5	100.5	100.5	Y	
↓	ICPMS (Continuing calibration)	Tl	24.78	25	99.1	99.1	99.1	Y	
↓	CVAA (Continuing calibration)	H5	1.06	1.0	106	106	106	Y	
	GFAA (Initial calibration)								
	GFAA (Continuing calibration)								

Comments: Refer to Calibration Verification worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation,
 Found = SSR (spiked sample result) - SR (sample result).
 True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
 D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
 SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated		Reported		Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D			
ICS AB	ICP interference check	Ni	20.3	20	101.5	101.5	101.5	101.5	Y
UCS	Laboratory control sample	Zn	282.8	287	99	99	99	99	Y
7	Matrix spike	Mo	(SSR-SR) 11.7925	10.5645	112	112	112	112	Y
7/8	Duplicate	Al	0.6888	0.7536	9	9	9	9	Y
1	ICP serial dilution	Ni	586.55	67.35	15	15	15	15	Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 209294

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
 Reviewer: AK
 2nd reviewer: [Signature]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y/N/N/A)
 (Y/N/N/A)
 (Y/N/N/A)

- Have results been reported and calculated correctly?
- Are results within the calibrated range of the instruments and within the linear range of the ICP?
- Are all detection limits below the CRDL?

Detected analyte results for Li were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation:

- RD = Raw data concentration
- FV = Final volume (ml)
- In. Vol. = Initial volume (ml) or weight (G)
- Dil = Dilution factor

$$\frac{100\text{mL} \cdot (0.18477\text{mg/L})}{0.919(1.01\text{g})} = 19.9\text{mg/kg}$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Al	21500	21500	Y
		Sb	0.24	0.24	
		As	5.6	5.6	
		Ba	65.0	65.0	
		Be	0.71	0.71	
		B	2.0	2.0	
		Cd	0.12	0.12	
		Ca	3040	3040	
		Cr	36.8	36.8	
		Co	6.9	6.9	
		Cu	6.8	6.8	
		Fe	27000	27000	
		Pb	5.6	5.6	
		Li	19.9	19.9	
		Mg	5280	5280	
		Mn	303	303	
		Mo	0.54	0.54	
		Ni	12.6	12.6	
		P	432	432	
		K	1690	1690	

Note:

Se	0.15	0.15
Ag	0.027	0.027
Na	110	110
Sr	27.5	27.5
Tl	0.22	0.22
Sb	3.0	3.0
Ti	1480	1480
V	60.2	60.2
Zn	50.7	50.7
Zr	13.0	13.0

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 23, 2012
Matrix: Soil/Water
Parameters: Wet Chemistry
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-016-SA5DS-SB-4.0-5.0
SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-016-SA5DS-SB-4.0-5.0MS
SL-016-SA5DS-SB-4.0-5.0MSD
SL-016-SA5DS-SB-4.0-5.0DUP
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD
SL-143-SA7-SB-5.0-6.0DUP

Introduction

This data review covers 11 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9012B for Cyanide, EPA Method 300.0 for Nitrate and Fluoride, EPA SW 846 Method 7199 for Hexavalent Chromium, and EPA Method 314.0 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No contaminant concentrations were found.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable

All analytes reported below the RL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE272	All analytes reported below the RL and above the MDL.	J (all detects)	A

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE272**

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

**Santa Susana Field Laboratory
Wet Chemistry – Laboratory Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

LDC #: 26979H6

VALIDATION COMPLETENESS WORKSHEET

Date: 1-23-12

SDG #: DE272

Level IV

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: CL

2nd Reviewer: [Signature]

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate-~~N~~, Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), Perchlorate (EPA Method 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV.	Matrix Spike/Matrix Spike Duplicates	A	MS/D
V.	Duplicates	A	PR
VI.	Laboratory control samples	A	LCS/D
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	ND	EB=6

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: Soil/Water

1	SL-016-SA5DS-SB-4.0-5.0	11	(XZ) MSD	21		31	
2	SL-143-SA7-SB-5.0-6.0	12	↓ DUP	22		32	
3	SL-143-SA7-SB-9.0-10.0	13		23		33	
4	SL-142-SA7-SB-2.0-3.0	14		24		34	
5	SL-142-SA7-SB-7.0-8.0	15		25		35	
6	EB-SA7-SB-101911 W	16		26		36	
7	(X1) MS	17		27		37	
8	↓ MSD	18		28		38	
9	↓ Dup	19		29		39	
10	(XZ) MS	20		30		40	

Notes: _____

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	<input checked="" type="checkbox"/>			
Were the proper number of standards used?	<input checked="" type="checkbox"/>			
Were all initial calibration correlation coefficients > 0.995?	<input checked="" type="checkbox"/>			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	<input checked="" type="checkbox"/>			
Were titrant checks performed as required? (Level IV only)			<input checked="" type="checkbox"/>	
Were balance checks performed as required? (Level IV only)			<input checked="" type="checkbox"/>	
III. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		<input checked="" type="checkbox"/>		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	<input checked="" type="checkbox"/>			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	<input checked="" type="checkbox"/>			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	<input checked="" type="checkbox"/>			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>			
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	<input checked="" type="checkbox"/>			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?			<input checked="" type="checkbox"/>	

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
Were detection limits < RL?	/			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target analytes were detected in the field duplicates.			/	
X. Field blanks				
Field blanks were identified in this SDG.	/			
Target analytes were detected in the field blanks.				

LDC #: 2697946

**Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification**

Page: 1 of
Reviewer:
2nd Reviewer:

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO4 was recalculated. Calibration date: 1/3/11

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$\%R = \frac{\text{Found} \times 100}{\text{True}}$ Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (mg/L)	Area	Recalculated		Reported		Acceptable (Y/N)
					r or r ²	r or r ²			
Initial calibration	ClO4	s1	2	0	1.000	1.000	1.000	Y	
		s2	4	0.004					
		s3	10	0.02					
		s4	25	0.06					
		s5	100	0.26					
Calibration verification	F	CCV 1.5 → 1.6054 →			1.07	1.07	1.07		
Calibration verification	NO3	CCV	15	1.5511	1.03	1.03	1.03		
Calibration verification	CN	CCV	0.15	0.1606	1.07	1.07	1.07	Y	

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

METHOD: Inorganics, Method see cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$
 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
 True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$
 Where, S = Original sample concentration
 D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated		Reported		Acceptable (Y/N)
					%R / RPD	%R / RPD	%R / RPD	%R / RPD	
LCS	Laboratory control sample	NO ₃	1.5	1.5	100		-		Y
10	Matrix spike sample	CN (SSR-SR)	5	4.878018	103		102		Y
9	Duplicate sample	ClO ₄	ND	ND	0		0		Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 31, 2012
Matrix: Soil/Water
Parameters: Total Petroleum Hydrocarbons as Gasoline
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
TB-101911
EB-SA7-SB-101911

Introduction

This data review covers 4 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

Sample TB-101911 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No total petroleum hydrocarbons as gasoline contaminants were found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
 Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG
 DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 TB-101911 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
 Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification
 Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
 Total Petroleum Hydrocarbons as Gasoline - Field Blank Data Qualification
 Summary - SDG DE272**

No Sample Data Qualified in this SDG

LDC #: 26979H7
 SDG #: DE272
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 Level IV

Date: 1/22/12
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 10/19/11
II	Initial calibration	Δ	% RSD ≤ 20
III.	Calibration verification/ICV	A	1CV/1CV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	Δ	LCSD
VIII.	Target compound identification	Δ	
IX.	Compound quantitation/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	TB = 3 EB = 6

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:
 SOL & WATER

1	SL-143-SA7-SB-5.0-6.0	TT 1	BLKAL	21	31
2	SL-143-SA7-SB-9.0-10.0	TT 2	BLK9G	22	32
3	SL-142-SA7-SB-2.0-3.0	TT 3	BLK9P	23	33
4	SL-142-SA7-SB-7.0-8.0			24	34
5	TB-101911	W		25	35
6	EB-SA7-SB-101911			26	36
7				27	37
8				28	38
9				29	39
10				30	40

Notes: _____

_DC #: 20977711 /
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the RT windows properly established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the retention times within the acceptance windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC #: 26979H7
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FJ
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			/	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		

LDC #: 26979H
 SDG #: see work

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: CA

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
 average CF = sum of the CF/number of standards
 %RSD = $100 * (S/X)$
 A = Area of compound,
 C = Concentration of compound,
 S = Standard deviation of the CF
 X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (220std)	CF (220std)	CF (220std)	Average CF (Initial)	%RSD	Average CF (Initial)	%RSD	
1	ICAL LWJT14078	8/19/09	GRU @ 2:50	101665	101665	104182	104182	6	6	6	6
2	ICAL	9/29/11	GRU @	7338	7338	7034	7034	5.9	5.9	5.9	5.9
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

LDC #: 26979A 7
 SDG #: per Contr

Page: 1 of 7
 Reviewer: FD
 2nd Reviewer: CA

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CGV Conc.	Reported		Recalculated	
					CF/Conc. CGV	%D	CF/Conc. CGV	%D
1	ceV 15:20	10/26/11	GRU	20.00	26.59	11.4	26.59	11.4
	Luft 16078				193.41	12.1	193.41	12.1
2	ceV 15:39	10/26/11	GRU	20.0	210.48	4.3	210.49	4.3
	Luft 16078							
3	ceV 10:51	10/24/11	GRU	30.0	29.77	0.8	29.77	0.8
	Luft 20266				596.57	8.5	596.57	8.5
4	ceV 9:52	10/25/11	GRU	50.0	515.32	0.9	515.32	0.9
	Luft 20266							

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC HPLC
 SDG #: see cover

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

Where: SF = Surrogate Found
 SS = Surrogate Spiked

% Recovery: SF/SS * 100

Sample ID: # /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
TFT	FID	813.7	748.2081	92	72	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \cdot \frac{SSC-SC}{SA}$ Where: SSC = Spiked sample concentration SC = Concentration
 RPD = $100 \cdot \frac{LCS - LCSD}{LCS + LCSD}$ SA = Spike added
 LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS ID 801

Compound	Spike Added (49/L)		Spiked Sample Concentration (49/L)		LCS		LCSD		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)	1100	1100	1200	1200	109	109	109	109	0	0		0
Diesel (8015)												
Benzene (8021B)												
Methane (RSK-175)												
2,4-D (8151)												
Dinoseb (8151)												
Naphthalene (8310)												
Anthracene (8310)												
HMX (8330)												
2,4,6-Trinitrotoluene (8330)												

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: Total Petroleum Hydrocarbons as Extractables
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911

Introduction

This data review covers 4 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No total petroleum hydrocarbons as extractable contaminants were found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D 18294 (All water samples in SDG DE272)	Extractable fuel hydrocarbons (C8-C11)	114 (43-107)	-	-	J (all detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
 Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary -
 SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	EB-SA7-SB-101911	Extractable fuel hydrocarbons (C8-C11)	J (all detects)	P	Laboratory control samples (%R) (L)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
 Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data
 Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
 Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification
 Summary - SDG DE272**

No Sample Data Qualified in this SDG

LDC #: 26979H8
 SDG #: DE272
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 Level IV

Date: 1/24/12
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 10/19/11
II	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	1σ/CCV ≤ 20
IV.	Blanks	Δ	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	SW	see IR
VIII.	Target compound identification	Δ	
IX.	Compound quantitation (R) LOQ/LODs	A	
X.	System Performance	Δ	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 5

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

Soil + water

1†	SL-143-SA7-SB-5.0-6.0	S	111	PBLK11300	21		31
2†	SL-143-SA7-SB-9.0-10.0		122	PBLK18294	22		32
3†	SL-142-SA7-SB-2.0-3.0		13		23		33
4†	SL-142-SA7-SB-7.0-8.0	↓	14		24		34
5	EB-SA7-SB-101911	W	15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

Notes: _____

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation?		/		
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?			/	
Were the RT windows properly established?	/			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			/	
Was a MS/MSD analyzed every 20 samples of each matrix?			/	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			/	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	

DC #: 20979#8
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FJ
 2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XV. Field blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

LDC #: 26779H
 SDG #: per work

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: [Signature]

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
- average CF = sum of the CF/number of standards
- %RSD = $100 \cdot (S/X)$
- A = Area of compound,
- C = Concentration of compound,
- S = Standard deviation of the CF
- X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (28 std)	CF (28 std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	ICAL	10/12/01	IPH ex-cy1D	25617	25617	26806.22	26806.22	10.7	10.7		
2											
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

LDC #: 26979HX
 SDG #: AW Conn

Page: 1 of 7
 Reviewer: FE
 2nd Reviewer: CA

METHOD: GC HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
 CF = A/C CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	CCV 8:51	10/25/11	C _x -C ₄ D	144.00	132.70	7.8	132.70	7.8
	CCV 20:51	10/28/11	↓	144.00	137.07	4.8	137.07	4.8
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET I
Surrogate Results Verification

SDG #: see cover
 METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
chlorobenzene	MS	1.0	0.837219	84	84	0
or thotrip henyl	V	1.0	0.879166	88	88	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC-SC)/SA$ Where: SSC = Spiked sample concentration SC = Concentration
 RPD = $|(LCS - LCSD) / ((LCS + LCSD) / 2)|$ SA = Spike added
 LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS11300

Compound	Spike Added (ug/kg)		Spiked Sample Concentration		LCS		LCSD		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.								
Gasoline (8015)														
Diesel (8015)														
Benzene (80218)														
Methane (RSK-175)														
2,4-D (8151)														
Dinoseb (8151)														
Naphthalene (8310)														
Anthracene (8310)														
HMX (8330)														
2,4,6-Trinitrotoluene (8330)														
PFH (08-011)	0.84	NA	0.74	NA	88	88	NA	NA	NA	NA	NA	NA	NA	NA

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: Explosives
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
EB-SA7-SB-101911
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD

Introduction

This data review covers 4 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8330A for Explosives.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Column	Compound	%D	Associated Samples	Flag	A or P
11/1/11	Chrompack	Tetryl	28.2	All soil samples in SDG DE272	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No explosive contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No explosive contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA7-SB-101911	10/19/11	RDX	0.99 ug/L	All soil samples in SDG DE272

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
EB-SA7-SB-101911	RDX	2nd column confirmation was not performed for this compound.	This compound must be confirmed on the 2nd column per the method.	NJ (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
Explosives - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0	Tetryl	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE272	EB-SA7-SB-101911	RDX	NJ (all detects)	A	Compound quantitation and RLs (no 2 nd column confirmation) (*IX)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Explosives - Laboratory Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

METHOD: HPLC Explosives (EPA SW 846 Method 8330A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II	Initial calibration	A	% RSD ≤ 20, 1 st
III.	Calibration verification/ICV	SW	% RSD ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	100 IP
VIII.	Target compound identification	A	
IX.	Compound quantitation (BL) LOQ/LODs	SW	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	SW	EB = 3

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:
 SOIL + water

1	SL-143-SA7-SB-5.0-6.0 S	11	PBLK12302	21		31
2	SL-143-SA7-SB-9.0-10.0 ✓	12	PBLK23093	22		32
3	EB-SA7-SB-101911 W	13		23		33
4	H/MS	14		24		34
5	H/MSD	15		25		35
6		16		26		36
7		17		27		37
8		18		28		38
9		19		29		39
10		20		30		40

Notes: _____

DC #: 26979440
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FJ
 2nd Reviewer: A

Method: GC / HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation?		/		
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?			/	
Were the RT windows properly established?	/			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	

LDC #: 26979H4U
 SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
X: Target compound identification				
Were the retention times of reported detects within the RT windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI: Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII: System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII: Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV: Field duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XV: Field blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

LDC #: 16979HVU
 SDG #: per work

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: A

METHOD: GC HPLC ✓

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
- average CF = sum of the CF/number of standards
- %RSD = $100 \cdot (S/X)$
- A = Area of compound,
- C = Concentration of compound,
- S = Standard deviation of the CF
- X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF	(std)	CF	(std)	Average CF (Initial)	%RSD	Average CF (Initial)	%RSD
1	1CAL	10/26/11	1,3 - DNB chrompack	507	500.5	507	500.5	2.94×10^2	1.6	2.94×10^2	1.6
								1.31×10^2	5.5	1.31×10^2	5.5
								2.47×10^2	4.0	2.47×10^2	4.0
2			↓ Capell	3.04	10^2	3.04	10^2	3.10×10^2	17.7	3.10×10^2	17.7
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 7697944U
 SDG #: 2009

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
 Reviewer: FD
 2nd Reviewer: A

METHOD: GC _____ HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times \frac{(\text{ave. CF} - \text{CF})}{\text{ave. CF}}$ Where: ave. CF = initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	11/01/11 20:09	11/01/11	1,3-DNB 2,6-Dinitrotoluene Cap cell	507.00		517.24 514.55 563.35 580.93	2.0 2.8 11.1 15.8	2.0 2.8 11.1 16.0
2								
3	10/27/11 3:20	10/27/11		500.05 500.0		535.76 579.05 535.75	7.1 3.8 7.1	7.1 3.8 7.1
4						515.10	3.0	3.0

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

SDG #: see cover
 METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
<i>2-Nitro-m-xylol</i>	<i>chrompack</i>	<i>2000</i>	<i>20949145</i>	<i>105</i>	<i>105</i>	<i>0</i>

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * ((SC - SA) / SA)$ Where SC = Sample concentration, SA = Spike added
 RPD = $(((SSCMS - SSCMSD) * 2) / ((SSCMS + SSCMSD)) * 100)$ Where SSCMS = Spiked sample concentration, SSCMSD = Matrix spike duplicate
 MS/MSD samples: # 445 MS = Matrix spike

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)	2000	2000	ND	1737.89	1761.9	87	87	88	88	1	1
2,4,6-Trinitrotoluene (8330)	1999.2	1999.2	ND	2086.38	2106.17	104	104	105	105	7	7

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times \frac{SSC-SC}{SA}$
 RPD = $100 \times \frac{LCS - LCSD}{\frac{1}{2}(LCS + LCSD)}$

Where: SSC = Spiked sample concentration
 SA = Spike added
 LCS = Laboratory control sample percent recovery

SC = Concentration
 LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS/236Z

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)	2000	NA	1807.61	NA	90	90				
2,4,6-Trinitrotoluene (8330)	1999.2	↓	2163.25	↓	108	108			NA	

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

LDC #: 26779H40
 SDG #: fu goner

METHOD: GC HPLC

Y/N N/A Were all reported results recalculated and verified for all level IV samples?
 Y/N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration = $\frac{(A)(FV)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$
 Example: Sample ID: # 3 Compound Name: RPX
binol
 Concentration = 6026 (~~10,000~~) (49.573) (10,000)
(500) (500) (1000)

= 0.9749/2

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications
	<u>6026</u>	<u>91.058(x)</u>	<u>71511.979</u>		
		<u>X = 49.573</u>			

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: Terphenyls
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-143-SA7-SB-9.0-10.0MS
SL-143-SA7-SB-9.0-10.0MSD

Introduction

This data review covers 6 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Terphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No terphenyl contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No terphenyl contaminants were found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

**Santa Susana Field Laboratory
Terphenyls - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

LDC #: 26979H41
 SDG #: DE272
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 Level IV

Date: 1/22/12
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC Terphenyls (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II.	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	CV ≤ 20
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	ICV 100
VIII.	Target compound identification	A	
IX.	Compound quantitation (R)/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 5

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

soil + water

1	1	SL-143-SA7-SB-5.0-6.0	S	11	1	PBLK09294	21		31	
2	1	SL-143-SA7-SB-9.0-10.0		12	2	PBLK09297	22		32	
3	1	SL-142-SA7-SB-2.0-3.0		13			23		33	
4	1	SL-142-SA7-SB-7.0-8.0		14			24		34	
5	2	EB-SA7-SB-101911	W	15			25		35	
6		#2MS		16			26		36	
7		#2MSD		17			27		37	
8				18			28		38	
9				19			29		39	
10				20			30		40	

Notes: _____

DC #: 26979H41
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FJ
 2nd Reviewer: A

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the RT windows properly established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the retention times within the acceptance windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Surrogate/spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

_DC #: 249717441
 SDG #: see card

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FJ
 2nd Reviewer: C

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XV. Field blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

LDC #: 26979H41
 SDG #: gc wch

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: C

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
 average CF = sum of the CF/number of standards
 %RSD = $100 \cdot (S/X)$
 A = Area of compound,
 C = Concentration of compound,
 S = Standard deviation of the CF
 X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (std)	CF (std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD	Average CF (Initial)	%RSD
1	1CAL	9/18/11	o-Terphenyl	15.72912 (std)	15.72912 CF (std)	2.59 X 10 ⁴	2.59 X 10 ⁴	5.2	5.2	2.59 X 10 ⁴	5.2
2	1CAL	10/7/11	↓	2.58 X 10 ⁴	2.58 X 10 ⁴	2.59 X 10 ⁴	2.59 X 10 ⁴	5.2	5.2	2.59 X 10 ⁴	5.2
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 76979441
 SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
 Reviewer: PT
 2nd Reviewer: CA

METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	ceV 19.51	10/24/11	o-Terphenyl	15.73	15.56	1.1	1.1	
2	ceV 10.17	11/02/11	↓	15.73	17.42	10.7	10.7	
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
 Surrogate Results Verification

METHOD: GC HPLC
 SDG #: see cover

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
n-Triacontane-d62	NS	0.3336	0.177459	53	53	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * ((SC - SA) / SA)$ Where SC = Spiked sample concentration SA = Spike added
 RPD = $(((SSCMS - SSCMSD) * 2) / ((SSCMS + SSCMSD))) * 100$ MS = Matrix spike
 SSC = Spiked sample concentration
 SA = Spike added
 MS = Matrix spike
 SC = Sample concentration
 MSD = Matrix spike duplicate

MS/MSD samples: 6, 7

Compound	Spike Added (mg/kg)		Sample Conc. (mg/kg)	Spike Sample Concentration (mg/kg)		Matrix spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		Reported	Recalc.
						Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
m-Perylene	8.21	8.21	ND	7.92	8.04	96	96	98	98	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC-SC)/SA$
RPD = $1 LCS - LCSD \cdot 2 / (LCS + LCSD)$

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery

SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS092914

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
<u>m- Terphenyl</u>	8.21	NA	7.7x	NA	95	95	NA	NA		

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: Alcohols
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD

Introduction

This data review covers 6 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Alcohols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Column	Compound	%D	Associated Samples	Flag	A or P
10/20/11	FID	Isopropanol	20.5	All soil samples in SDG DE272	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No alcohol contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No alcohol contaminants were found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
Alcohols - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Isopropanol	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

LDC #: 26979H43

VALIDATION COMPLETENESS WORKSHEET

Date: 1/22/12

SDG #: DE272

Level IV

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Alcohols (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 10/19/11
II	Initial calibration	Δ	1/1 RSD ≤ 20
III.	Calibration verification/ICV	SW	1 CV / CV ≤ 20
IV.	Blanks	Δ	
V	Surrogate recovery	Δ	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LC5
VIII.	Target compound identification	Δ	
IX.	Compound quantitation (RL/LOQ/LODs)	Δ	
X.	System Performance	Δ	
XI.	Overall assessment of data	Δ	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 5

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:
 Soil + water

1	SL-143-SA7-SB-5.0-6.0	S	111	PBLK33293	21		31
2	SL-143-SA7-SB-9.0-10.0		122	PBLK31293	22		32
3	SL-142-SA7-SB-2.0-3.0		13		23		33
4	SL-142-SA7-SB-7.0-8.0	↓	14		24		34
5	EB-SA7-SB-101911	W	15		25		35
6	#1 MS		16		26		36
7	#1 MS D		17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

Notes: _____

DC #: 26979 H4 }
 SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FJ
 2nd Reviewer: A

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation?		/		
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?			/	
Were the RT windows properly established?	/			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.			/	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	

DC #: 2697944
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FJ
 2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			/	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		

LDC #: 26979443
 SDG #: file work

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: [Signature]

METHOD: GC ✓ HPLC _____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
- average CF = sum of the CF/number of standards
- %RSD = $100 * (S/X)$
- A = Area of compound,
- C = Concentration of compound,
- S = Standard deviation of the CF
- X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (900/Std)	CF (500/Std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	1CAL	9/22/11	Methanol	8.62×10^0	8.62×10^0	8.42×10^0	8.42×10^0	5.1	5.1	5.1	5.1
2	1CAL	10/4/11	↓	3.79×10^0	3.79×10^0	3.76×10^0	3.76×10^0	6.4	6.4	6.4	6.4
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H43
 SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
 Reviewer: FD
 2nd Reviewer: CA

METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. CF} - \text{CF}) / \text{ave. CF}$
 CF = A/C

Where: ave. CF = initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	CCV 19:02	10/20/11	Methano	5000.00	4412.49	11.8	4412.49	11.8
2	CCV 17:07	10/21/11	↓	↓	5140.18	2.8	5140.18	2.8
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
 Surrogate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
Acbone	FID	2500	2053.38013	82	82	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$\%R_{\text{recovery}} = 100 * ((SC - SA) / SA)$ Where SC = Spiked sample concentration SA = Spike added
 $RPD = (((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD)) * 100$ MS = Matrix spike
 MS/MSD samples: 6 + 7

Compound	Spike Added (ug)		Sample Conc. (ug/kg)		Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	MS	MSD	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)	2500	2500	ND	ND	2079.95	2247.43	83	83	90	90	8	8
Diesel (8015)												
Benzene (8021B)												
Methane (RSK-175)												
2,4-D (8151)												
Dinoseb (8151)												
Naphthalene (8310)												
Anthracene (8310)												
HMX (8330)												
2,4,6-Trinitrotoluene (8330)												

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 2-6779HY3
 SDG #: LC conch

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC-SC) / SA$
 RPD = $100 * |LCS - LCSD| * 2 / (LCS + LCSD)$

Where: SSC = Spiked sample concentration
 SA = Spike added
 LCS = Laboratory control sample percent recovery

SC = Concentration
 LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LC533293

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Methano Gasoline (8015)	2500	NA	2300	NA	92	92	NA	NA		
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: Glycols
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
EB-SA7-SB-101911MS
EB-SA7-SB-101911MSD

Introduction

This data review covers 4 soil samples and 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Glycols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No glycol contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No glycol contaminants were found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
EB-SA7-SB-101911MS/MSD (EB-SA7-SB-101911)	Ethylene glycol	70 (89-125)	-	25 (≤20)	J (all detects) UJ (all non-detects)	A
	Propylene glycol	75 (91-128)	90 (91-128)	-	J (all detects) UJ (all non-detects)	

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
Glycols - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	EB-SA7-SB-101911	Ethylene glycol	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE272	EB-SA7-SB-101911	Propylene glycol	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

METHOD: GC Glycols (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 10/19/11
II	Initial calibration	Δ	% RSD ≤ 20
III.	Calibration verification/ICV	Δ	ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SA	
VII.	Laboratory control samples	A	LC5
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 5

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

soil + water

1	SL-143-SA7-SB-5.0-6.0	11	PBLK 42298	21		31	
2	SL-143-SA7-SB-9.0-10.0	12	PBLK 39097	22		32	
3	SL-142-SA7-SB-2.0-3.0	13		23		33	
4	SL-142-SA7-SB-7.0-8.0	14		24		34	
5	EB-SA7-SB-101911	15		25		35	
6	#5MS	16		26		36	
7	#3MS	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

DC #: 26979 H45
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the RT windows properly established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the retention times within the acceptance windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

DC #: 26979#45
 SDG #: per card

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FJ
 2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			/	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		

LDC #: 26979H45
 SDG #: per work

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: R

METHOD: GC ✓ HPLC _____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
 average CF = sum of the CF/number of standards
 %RSD = $100 * (S/X)$
 A = Area of compound,
 C = Concentration of compound,
 S = Standard deviation of the CF
 X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (std)	CF (std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	1CAL	11/24/11	Propylene glycol	101.3773 (5.43 x 10 ²)	101.3773 (5.43 x 10 ²)	5.27 x 10 ²	5.27 x 10 ²	2.8	2.8		
2	1CAL	10/19/11	↓	(99.179) 7.00 x 10 ²	(99.179) 7.00 x 10 ²	6.95 x 10 ²	6.95 x 10 ²	2.9	2.9		
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 76979HYS
 SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
 Reviewer: EA
 2nd Reviewer: EA

METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
 CF = A/C CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CGV Conc.	Reported		Recalculated	
					CF/Conc. CGV	%D	CF/Conc. CGV	%D
1	ecv 1913	10/24/11	Propylene Glycol	214.07	308.78	1.7	308.78	1.7
2	ecv 2132	10/25/11	↓	198.36	201.83	1.5	201.83	1.5
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
 Surrogate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$ Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: # /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
Tetramethylene glycol	NS	206.41	180.133591	87	87	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$\%Recovery = 100 * (SSC - SC) / SA$ Where SSC = Spiked sample concentration SC = Sample concentration
 $RPD = \frac{((SSCMS - SSCMSD) * 2) / ((SSCMS + SSCMSD)) * 100}{MS}$ SA = Spike added MS = Matrix spike
 MSD = Matrix spike duplicate

MS/MSD samples: 647

Compound	Spike Added (mg/L)		Sample Conc (mg/l)	Spike Sample Concentration (mg/L)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Ethylene Glycol	200	200	ND	140	180	70	70	90	90	5	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \cdot \frac{SSC-SC}{SA}$ Where: SSC = Spiked sample concentration SC = Concentration
 RPD = $\frac{|LCS - LCSD|}{LCS + LCSD} \cdot 2$ SA = Spike added
 LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8016)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
Ethylene Glycol	189.63	NA	201.8	NA	106	106	NA	NA		

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: October 19, 2011
LDC Report Date: January 30, 2012
Matrix: Soil/Water
Parameters: Formaldehyde
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
EB-SA7-SB-101911
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD

Introduction

This data review covers 4 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8315A for Formaldehyde.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No formaldehyde was found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No formaldehyde was found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
 Formaldehyde - Data Qualification Summary - SDG DE272**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory
 Formaldehyde - Laboratory Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
 Formaldehyde - Field Blank Data Qualification Summary - SDG DE272**

No Sample Data Qualified in this SDG

METHOD: HPLC Formaldehyde (EPA SW 846 Method 8315A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 10/19/11
II.	Initial calibration	Δ	% PSD = 20, r ²
III.	Calibration verification/REV	A	CV ≤ 20
IV.	Blanks	Δ	
V.	Surrogate recovery	Δ	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	ics / P
VIII.	Target compound identification	Δ	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	Δ	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 3

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

soil + water

1	SL-143-SA7-SB-5.0-6.0	9	11	PBLK25098	21	31
2	SL-143-SA7-SB-9.0-10.0	↓	12	PBLK18293	22	32
3	EB-SA7-SB-101911	W	13		23	33
4	#1MS		14		24	34
5	#1MSD		15		25	35
6			16		26	36
7			17		27	37
8			18		28	38
9			19		29	39
10			20		30	40

Notes: _____

DC #: 26979 H 71
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FB
 2nd Reviewer: A

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the RT windows properly established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the retention times within the acceptance windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

_DC #: 26979471
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	/			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		

LDC # 26979H71
 SDG# flu coner

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: method 8315A

Parameter: formaldehyde

Date	Column	Compound	y	x
10/27/2011	ns	formaldehyde	14829.60	100.1
			30659.70	500.5
			58485.30	1001.0
			359300.40	6006.0
			563648.40	10010.0

Regression Output:		Regression Output:	Reported
Constant		6602.26937	6602.27800
Std Err of Y Est		9938.71211	
R Squared		0.99877	0.99880
No. of Observations		5.00000	
Degrees of Freedom		3.00000	
X Coefficient(s)	5.642E+001	0.25	56.42
Std Err of Coef.	1.144130	0.04	

LDC #: 269779#71
 SDG #: pu wash

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: FJ
 2nd Reviewer: EC

METHOD: GC HPLC ✓

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
 average CF = sum of the CF/number of standards
 %RSD = 100 * (S/X)

A = Area of compound,
 C = Concentration of compound,
 S = Standard deviation of the CF
 X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				2002 CF (std)	5.04x10 ¹	2002 CF (std)	5.04x10 ¹	Average CF (Initial)	%RSD	Average CF (Initial)	%RSD
1	ICAL	10/21/11	Formaldehyde	5.04x10 ¹	5.04x10 ¹	4.96x10 ¹	4.96x10 ¹	4.96x10 ¹	4.8	4.96x10 ¹	4.8
2	ICAL	10/27/11	Acet	5.84x10 ¹		7.68x10 ¹	7.68x10 ¹	7.68x10 ¹		7.68x10 ¹	
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 76979 H 7.1
 SDG #: per center

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
 Reviewer: EA
 2nd Reviewer: EA

METHOD: GC _____ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(1cal)/ CCV Conc.	Reported		Recalculated		
					CF/Conc. CCV	%D	CF/Conc. CCV	%D	
1			<i>samples were analyzed after 1 cal</i>						
2									
3									
4									

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET I
Surrogate Results Verification

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$
 Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
Butyraldehyde	N7	2000	3896.07617	98	97.4	0
			2			

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * ((SSC - SC) / SA)$ Where SSC = Spiked sample concentration SA = Spike added SC = Sample concentration
 RPD = $(((SSCMS - SSCMSD) * 2) / ((SSCMS + SSCMSD))) * 100$ MSD = Matrix spike duplicate

MS/MSD samples: 4 + 5

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Formaldehyde	5025	5025	ND	538.12	520.85.5	106	106	113	113	6	6

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \cdot (SSC-SC)/SA$ Where: SSC = Spiked sample concentration SC = Concentration
 RPD = $1 \text{ LCS} - \text{LCSD} \cdot 100 / (\text{LCS} + \text{LCSD})$ SA = Spike added

LCS = Laboratory control sample percent recovery
 LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS 2527X

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Formaldehyde Gasoline (8045)	5085	N/A	5679.45	N/A	113	113	NA			
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

SAMPLE DELIVERY GROUP

DE273

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Oct-2011	TB-102011	6445473	TB	5030B	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3050B	6010B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3050B	6020	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3060A	7199	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3550B	8015B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3550B	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3550B	8082	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3550B	8270C	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3550B	8270C SIM	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	5035	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	300.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	314.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	7471A	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	8015B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	9012B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0DUP	P445463D271845B	DUP	METHOD	314.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0DUP	P445463D271857A	DUP	METHOD	300.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MSD	P445463M320201A	MSD	3550B	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MSD	P445463M321802A	MSD	3550B	8015B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MS	P445463R271906B	MS	METHOD	314.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MS	P445463R271909A	MS	METHOD	300.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MS	P445463R320137A	MS	3550B	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MS	P445463R321718A	MS	3550B	8015B	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3050B	6010B	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3060A	7199	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3550B	8082	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3550B	8270C	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3550B	8270C SIM	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	METHOD	300.0	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	METHOD	314.0	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	METHOD	7471A	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3050B	6010B	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3050B	6020	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3060A	7199	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3550B	8082	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3550B	8270C	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3550B	8270C SIM	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	METHOD	300.0	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	METHOD	314.0	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	METHOD	7471A	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3050B	6010B	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3050B	6020	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3060A	7199	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3550B	8015B	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3550B	8015M	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3550B	8082	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3550B	8270C	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3550B	8270C SIM	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	5035	8015M	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	314.0	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	7471A	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	8015B	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	8015M	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	9012B	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3050B	6010B	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3050B	6020	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3060A	7199	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3550B	8082	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3550B	8270C	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3550B	8270C SIM	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	METHOD	300.0	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	METHOD	314.0	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	METHOD	7471A	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3050B	6010B	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3050B	6020	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3060A	7199	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3550B	8082	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3550B	8270C	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3550B	8270C SIM	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	METHOD	300.0	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	METHOD	314.0	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	METHOD	6850	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	METHOD	7471A	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3050B	6010B	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3060A	7199	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3550B	8015B	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3550B	8015M	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3550B	8082	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3550B	8270C	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3550B	8270C SIM	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	300.0	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	314.0	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	7471A	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	8015B	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	8015M	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	9012B	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3050B	6010B	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3050B	6020	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3060A	7199	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3550B	8082	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3550B	8270C	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3550B	8270C SIM	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	METHOD	300.0	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	METHOD	314.0	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	METHOD	7471A	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3050B	6010B	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3050B	6020	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3060A	7199	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3550B	8015B	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3550B	8082	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3550B	8270C	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3550B	8270C SIM	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	5035	8015M	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	300.0	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	314.0	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	7471A	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	8015B	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	8015M	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-016-SA8S-SB-4.0-5.0		Collected: 10/20/2011 3:08:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-023-SA7-SB-2.0-3.0		Collected: 10/20/2011 9:18:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5DS-SB-4.0-5.0		Collected: 10/20/2011 12:37:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.7		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5DS-SB-9.0-10.0		Collected: 10/20/2011 11:55:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	9.1		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-040-SA5DS-SB-4.0-5.0		Collected: 10/20/2011 10:01:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	25.0		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-040-SA5DS-SB-9.0-10.0		Collected: 10/20/2011 9:20:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	17.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA7-SB-2.5-3.5		Collected: 10/20/2011 11:05:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.83	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/30/2012 8:29:22 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-069-SA7-SB-2.5-3.5 Collected: 10/20/2011 3:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-148-SA7-SB-0.0-1.0 Collected: 10/20/2011 2:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-016-SA8S-SB-4.0-5.0 Collected: 10/20/2011 3:08:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	21400		6.63	MDL	21.9	PQL	mg/Kg	J	E
POTASSIUM	3940		12.4	MDL	54.8	PQL	mg/Kg	J	Q
SODIUM	83.0	J	6.52	MDL	110	PQL	mg/Kg	J	Z
TIN	2.71	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.78	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA7-SB-2.0-3.0 Collected: 10/20/2011 9:18:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13100		5.97	MDL	19.7	PQL	mg/Kg	J	E
POTASSIUM	3000		11.2	MDL	49.3	PQL	mg/Kg	J	Q
SODIUM	73.6	J	5.87	MDL	98.7	PQL	mg/Kg	J	Z
TIN	2.51	J	0.316	MDL	9.87	PQL	mg/Kg	U	B
Zirconium	3.26	J	0.454	MDL	4.93	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5DS-SB-4.0-5.0 Collected: 10/20/2011 12:37:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	20700		6.51	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	4200		12.2	MDL	53.8	PQL	mg/Kg	J	Q
TIN	2.74	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/30/2012 8:29:22 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6010B	Matrix:			SO					

Sample ID: SL-026-SA5DS-SB-9.0-10.0 Collected: 10/20/2011 11:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	30100		6.64	MDL	22.0	PQL	mg/Kg	J	E
POTASSIUM	6250		12.4	MDL	54.9	PQL	mg/Kg	J	Q
TIN	2.98	J	0.351	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-040-SA5DS-SB-4.0-5.0 Collected: 10/20/2011 10:01:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	31000		6.53	MDL	21.6	PQL	mg/Kg	J	E
POTASSIUM	3930		12.2	MDL	54.0	PQL	mg/Kg	J	Q
TIN	2.92	J	0.346	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-040-SA5DS-SB-9.0-10.0 Collected: 10/20/2011 9:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	23800		6.38	MDL	21.1	PQL	mg/Kg	J	E
POTASSIUM	2760		11.9	MDL	52.7	PQL	mg/Kg	J	Q
TIN	2.92	J	0.337	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-060-SA7-SB-2.5-3.5 Collected: 10/20/2011 11:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12400		6.21	MDL	20.5	PQL	mg/Kg	J	E
POTASSIUM	945		11.6	MDL	51.3	PQL	mg/Kg	J	Q
TIN	2.62	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA7-SB-2.5-3.5 Collected: 10/20/2011 3:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15700		6.18	MDL	20.4	PQL	mg/Kg	J	E
POTASSIUM	3780		11.5	MDL	51.1	PQL	mg/Kg	J	Q
SODIUM	78.9	J	6.08	MDL	102	PQL	mg/Kg	J	Z
TIN	2.68	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.10	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-148-SA7-SB-0.0-1.0

Collected: 10/20/2011 2:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14100		6.24	MDL	20.6	PQL	mg/Kg	J	E
BORON	4.61	J	0.371	MDL	5.15	PQL	mg/Kg	J	Z
POTASSIUM	2220		11.6	MDL	51.5	PQL	mg/Kg	J	Q
SODIUM	74.8	J	6.13	MDL	103	PQL	mg/Kg	J	Z
TIN	2.69	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.66	J	0.474	MDL	5.15	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-016-SA8S-SB-4.0-5.0

Collected: 10/20/2011 3:08:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0647	J	0.0612	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA8S-SB-4.0-5.0

Collected: 10/20/2011 3:08:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0780	U	0.0780	MDL	0.211	PQL	mg/Kg	UJ	Q
ARSENIC	5.12		0.0843	MDL	0.422	PQL	mg/Kg	J	Q
BERYLLIUM	0.735		0.0169	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	22.5		0.127	MDL	0.422	PQL	mg/Kg	J	Q, A
COBALT	8.16		0.0211	MDL	0.105	PQL	mg/Kg	J	A
COPPER	12.1		0.0843	MDL	0.422	PQL	mg/Kg	J	A
LEAD	6.92		0.0108	MDL	0.211	PQL	mg/Kg	J	Q, A
NICKEL	16.1		0.105	MDL	0.422	PQL	mg/Kg	J	A
SILVER	0.0377	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	43.7		0.0232	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-023-SA7-SB-2.0-3.0

Collected: 10/20/2011 9:18:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.137	J	0.0601	MDL	0.415	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-023-SA7-SB-2.0-3.0

Collected: 10/20/2011 9:18:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0767	U	0.0767	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	3.51		0.0829	MDL	0.415	PQL	mg/Kg	J	Q
BERYLLIUM	0.467		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	14.7		0.124	MDL	0.415	PQL	mg/Kg	J	Q, A
COBALT	5.10		0.0207	MDL	0.104	PQL	mg/Kg	J	A
COPPER	6.73		0.0829	MDL	0.415	PQL	mg/Kg	J	A
LEAD	4.68		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, A
NICKEL	9.30		0.104	MDL	0.415	PQL	mg/Kg	J	A
SILVER	0.0253	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	29.5		0.0228	MDL	0.104	PQL	mg/Kg	J	A

Sample ID: SL-026-SA5DS-SB-4.0-5.0

Collected: 10/20/2011 12:37:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0630	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5DS-SB-4.0-5.0

Collected: 10/20/2011 12:37:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0804	U	0.0804	MDL	0.217	PQL	mg/Kg	UJ	Q
ARSENIC	4.73		0.0870	MDL	0.435	PQL	mg/Kg	J	Q
BERYLLIUM	0.578		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.0890	J	0.0478	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	27.9		0.130	MDL	0.435	PQL	mg/Kg	J	Q, A
COBALT	8.63		0.0217	MDL	0.109	PQL	mg/Kg	J	A
COPPER	10.8		0.0870	MDL	0.435	PQL	mg/Kg	J	A
LEAD	6.65		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, A
NICKEL	14.4		0.109	MDL	0.435	PQL	mg/Kg	J	A
VANADIUM	56.7		0.0239	MDL	0.109	PQL	mg/Kg	J	A

Sample ID: SL-026-SA5DS-SB-9.0-10.0

Collected: 10/20/2011 11:55:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.344	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-026-SA5DS-SB-9.0-10.0

Collected: 10/20/2011 11:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0880	J	0.0812	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	6.86		0.0878	MDL	0.439	PQL	mg/Kg	J	Q
BERYLLIUM	0.762		0.0176	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.108	J	0.0483	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	35.9		0.132	MDL	0.439	PQL	mg/Kg	J	Q, A
COBALT	8.11		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	20.6		0.0878	MDL	0.439	PQL	mg/Kg	J	A
LEAD	9.82		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, A
NICKEL	22.5		0.110	MDL	0.439	PQL	mg/Kg	J	A
SILVER	0.0195	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	67.2		0.0241	MDL	0.110	PQL	mg/Kg	J	A

Sample ID: SL-040-SA5DS-SB-4.0-5.0

Collected: 10/20/2011 10:01:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0626	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DS-SB-4.0-5.0

Collected: 10/20/2011 10:01:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0827	J	0.0799	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	6.45		0.0864	MDL	0.432	PQL	mg/Kg	J	Q
BERYLLIUM	0.852		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.0595	J	0.0475	MDL	0.108	PQL	mg/Kg	J	Z
CHROMIUM	36.9		0.130	MDL	0.432	PQL	mg/Kg	J	Q, A
COBALT	10.5		0.0216	MDL	0.108	PQL	mg/Kg	J	A
COPPER	12.8		0.0864	MDL	0.432	PQL	mg/Kg	J	A
LEAD	8.46		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, A
NICKEL	19.5		0.108	MDL	0.432	PQL	mg/Kg	J	A
SILVER	0.0407	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	70.5		0.0238	MDL	0.108	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-040-SA5DS-SB-9.0-10.0

Collected: 10/20/2011 9:20:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0624	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DS-SB-9.0-10.0

Collected: 10/20/2011 9:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0796	U	0.0796	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	6.47		0.0860	MDL	0.430	PQL	mg/Kg	J	Q
BERYLLIUM	0.729		0.0172	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	39.9		0.129	MDL	0.430	PQL	mg/Kg	J	Q, A
COBALT	10.7		0.0215	MDL	0.108	PQL	mg/Kg	J	A
COPPER	10.4		0.0860	MDL	0.430	PQL	mg/Kg	J	A
LEAD	7.86		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, A
NICKEL	19.3		0.108	MDL	0.430	PQL	mg/Kg	J	A
SILVER	0.0203	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	67.5		0.0237	MDL	0.108	PQL	mg/Kg	J	A

Sample ID: SL-060-SA7-SB-2.5-3.5

Collected: 10/20/2011 11:05:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0657	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA7-SB-2.5-3.5

Collected: 10/20/2011 11:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0752	U	0.0752	MDL	0.203	PQL	mg/Kg	UJ	Q
ARSENIC	2.76		0.0813	MDL	0.407	PQL	mg/Kg	J	Q
BERYLLIUM	0.398		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	13.9		0.122	MDL	0.407	PQL	mg/Kg	J	Q, A
COBALT	3.37		0.0203	MDL	0.102	PQL	mg/Kg	J	A
COPPER	4.05		0.0813	MDL	0.407	PQL	mg/Kg	J	A
LEAD	2.85		0.0104	MDL	0.203	PQL	mg/Kg	J	Q, A
NICKEL	10.8		0.102	MDL	0.407	PQL	mg/Kg	J	A
SILVER	0.0206	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z
THALLIUM	0.144		0.0305	MDL	0.102	PQL	mg/Kg	U	B
VANADIUM	25.5		0.0224	MDL	0.102	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-069-SA7-SB-2.5-3.5

Collected: 10/20/2011 3:23:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA7-SB-2.5-3.5

Collected: 10/20/2011 3:23:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q
ARSENIC	4.63		0.0833	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.585		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.0879	J	0.0458	MDL	0.104	PQL	mg/Kg	J	Z
CHROMIUM	22.9		0.125	MDL	0.417	PQL	mg/Kg	J	Q, A
COBALT	6.74		0.0208	MDL	0.104	PQL	mg/Kg	J	A
COPPER	10.0		0.0833	MDL	0.417	PQL	mg/Kg	J	A
LEAD	4.83		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, A
NICKEL	15.8		0.104	MDL	0.417	PQL	mg/Kg	J	A
SILVER	0.0376	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	43.1		0.0229	MDL	0.104	PQL	mg/Kg	J	A

Sample ID: SL-148-SA7-SB-0.0-1.0

Collected: 10/20/2011 2:23:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.147	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-148-SA7-SB-0.0-1.0

Collected: 10/20/2011 2:23:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0741	U	0.0741	MDL	0.200	PQL	mg/Kg	UJ	Q
ARSENIC	4.44		0.0801	MDL	0.401	PQL	mg/Kg	J	Q
BERYLLIUM	0.607		0.0160	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.0780	J	0.0441	MDL	0.100	PQL	mg/Kg	J	Z
CHROMIUM	18.2		0.120	MDL	0.401	PQL	mg/Kg	J	Q, A
COBALT	6.03		0.0200	MDL	0.100	PQL	mg/Kg	J	A
COPPER	7.01		0.0801	MDL	0.401	PQL	mg/Kg	J	A
LEAD	5.48		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, A
NICKEL	11.7		0.100	MDL	0.401	PQL	mg/Kg	J	A
SILVER	0.0344	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-148-SA7-SB-0.0-1.0 Collected: 10/20/2011 2:23:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	35.8		0.0220	MDL	0.100	PQL	mg/Kg	J	A

Method Category: METALS
Method: 7199 **Matrix:** SO

Sample ID: SL-148-SA7-SB-0.0-1.0 Collected: 10/20/2011 2:23:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-026-SA5DS-SB-9.0-10.0 Collected: 10/20/2011 11:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0142	J	0.0077	MDL	0.109	PQL	mg/Kg	U	B

Sample ID: SL-040-SA5DS-SB-9.0-10.0 Collected: 10/20/2011 9:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0141	J	0.0074	MDL	0.106	PQL	mg/Kg	U	B

Method Category: SVOA
Method: 8015M **Matrix:** SO

Sample ID: SL-023-SA7-SB-2.0-3.0 Collected: 10/20/2011 9:18:00 Analysis Type: REA Dilution: 25.46

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.3	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA7-SB-2.0-3.0 Collected: 10/20/2011 9:18:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.66	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z, Q, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-023-SA7-SB-2.0-3.0

Collected: 10/20/2011 9:18:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.8		0.41	MDL	1.2	PQL	mg/Kg	J	Q, Q

Sample ID: SL-060-SA7-SB-2.5-3.5

Collected: 10/20/2011 11:05:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.83	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA7-SB-2.5-3.5

Collected: 10/20/2011 3:23:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.53	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-148-SA7-SB-0.0-1.0

Collected: 10/20/2011 2:23:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.71	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-016-SA8S-SB-4.0-5.0

Collected: 10/20/2011 3:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-023-SA7-SB-2.0-3.0

Collected: 10/20/2011 9:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-026-SA5DS-SB-4.0-5.0 Collected: 10/20/2011 12:37:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.65	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z, L
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-026-SA5DS-SB-9.0-10.0 Collected: 10/20/2011 11:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.8	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, L
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-040-SA5DS-SB-4.0-5.0 Collected: 10/20/2011 10:01:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-040-SA5DS-SB-9.0-10.0 Collected: 10/20/2011 9:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E

Sample ID: SL-060-SA7-SB-2.5-3.5 Collected: 10/20/2011 11:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-069-SA7-SB-2.5-3.5

Collected: 10/20/2011 3:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E

Sample ID: SL-148-SA7-SB-0.0-1.0

Collected: 10/20/2011 2:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.4	J	1.0	MDL	3.5	PQL	ug/Kg	J	Z, E

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-016-SA8S-SB-4.0-5.0

Collected: 10/20/2011 3:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.5	J	6.5	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	13	J	6.5	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.2	J	6.5	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA7-SB-2.0-3.0

Collected: 10/20/2011 9:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.75	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.62	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5DS-SB-4.0-5.0

Collected: 10/20/2011 12:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.1	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.2	J	6.4	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-026-SA5DS-SB-9.0-10.0

Collected: 10/20/2011 11:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.5	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.0	J	6.5	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA5DS-SB-4.0-5.0

Collected: 10/20/2011 10:01:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.3	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.7	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA5DS-SB-9.0-10.0

Collected: 10/20/2011 9:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.7	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA7-SB-2.5-3.5

Collected: 10/20/2011 3:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.79	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-148-SA7-SB-0.0-1.0

Collected: 10/20/2011 2:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.8	J	6.2	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.38	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.1	J	6.2	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: PrepDE273_v2

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE273

Method Blank Outlier Report

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: DE273_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29708FB220649	10/29/2011 6:49:00 AM	BORON CALCIUM MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	0.447 mg/Kg 17.2 mg/Kg 2.05 mg/Kg 0.0480 mg/Kg 1.14 mg/Kg 0.0770 mg/Kg 1.18 mg/Kg	SL-016-SA8S-SB-4.0-5.0 SL-023-SA7-SB-2.0-3.0 SL-026-SA5DS-SB-4.0-5.0 SL-026-SA5DS-SB-9.0-10.0 SL-040-SA5DS-SB-4.0-5.0 SL-040-SA5DS-SB-9.0-10.0 SL-060-SA7-SB-2.5-3.5 SL-069-SA7-SB-2.5-3.5 SL-148-SA7-SB-0.0-1.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-016-SA8S-SB-4.0-5.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-023-SA7-SB-2.0-3.0(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	TIN	2.98 mg/Kg	2.98U mg/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-060-SA7-SB-2.5-3.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-069-SA7-SB-2.5-3.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-148-SA7-SB-0.0-1.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29726CB221913A	10/26/2011 7:13:00 PM	LEAD	0.0121 mg/Kg	SL-016-SA8S-SB-4.0-5.0 SL-023-SA7-SB-2.0-3.0 SL-026-SA5DS-SB-4.0-5.0 SL-026-SA5DS-SB-9.0-10.0 SL-040-SA5DS-SB-4.0-5.0 SL-040-SA5DS-SB-9.0-10.0 SL-060-SA7-SB-2.5-3.5 SL-069-SA7-SB-2.5-3.5 SL-148-SA7-SB-0.0-1.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: DE273_v2

eQAPP Name: CDM_SSFL_110509

Method: 3015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-023-SA7-SB-2.0-3.0MS	EFH (C12-C14)	-	283	49.00-123.00	59 (20.00)	EFH (C12-C14)	J (all detects) EFH (C21-C30) and (C30-C40), No Qual, >4x
SL-023-SA7-SB-2.0-3.0MSD	EFH (C15-C20)	494	190	49.00-123.00	55 (20.00)	EFH (C15-C20)	
(SL-023-SA7-SB-2.0-3.0)	EFH (C21-C30)	1022	728	49.00-123.00	-	EFH (C21-C30)	
	EFH (C30-C40)	292	353	49.00-123.00	-	EFH (C30-C40)	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-023-SA7-SB-2.0-3.0MS (SL-016-SA8S-SB-4.0-5.0 SL-023-SA7-SB-2.0-3.0 SL-026-SA5DS-SB-4.0-5.0 SL-026-SA5DS-SB-9.0-10.0 SL-040-SA5DS-SB-4.0-5.0 SL-040-SA5DS-SB-9.0-10.0 SL-060-SA7-SB-2.5-3.5 SL-069-SA7-SB-2.5-3.5 SL-148-SA7-SB-0.0-1.0)	FLUORIDE	73	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: DE273_v2

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-023-SA7-SB-2.0-3.0DUP (SL-016-SA8S-SB-4.0-5.0 SL -023-SA7-SB-2.0-3.0 SL -026-SA5DS-SB-4.0-5.0 SL -026-SA5DS-SB-9.0-10.0 SL -040-SA5DS-SB-4.0-5.0 SL -040-SA5DS-SB-9.0-10.0 SL -060-SA7-SB-2.5-3.5 SL -069-SA7-SB-2.5-3.5 SL -148-SA7-SB-0.0-1.0)	FLUORIDE	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: DE273_v2

eQAPP Name: CDM_SSFL_110509

Method: 3082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12995AQ240434A (SL-016-SA8S-SB-4.0-5.0 SL-023-SA7-SB-2.0-3.0 SL-026-SA5DS-SB-4.0-5.0 SL-026-SA5DS-SB-9.0-10.0 SL-040-SA5DS-SB-4.0-5.0 SL-040-SA5DS-SB-9.0-10.0 SL-060-SA7-SB-2.5-3.5 SL-069-SA7-SB-2.5-3.5 SL-148-SA7-SB-0.0-1.0)	AROCLOR 1260	153	-	65.00-137.00	-	AROCLOR 1260, 1242, 1248, 1254, 1262, 1268	J (all detects)
P12995AY240512A (SL-016-SA8S-SB-4.0-5.0 SL-023-SA7-SB-2.0-3.0 SL-026-SA5DS-SB-4.0-5.0 SL-026-SA5DS-SB-9.0-10.0 SL-040-SA5DS-SB-4.0-5.0 SL-040-SA5DS-SB-9.0-10.0 SL-060-SA7-SB-2.5-3.5 SL-069-SA7-SB-2.5-3.5 SL-148-SA7-SB-0.0-1.0)	Aroclor 5442	-	-	36.00-106.00	32 (30.00)	Aroclor 5442, 5432, 5460	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29726CQ221916A (SL-016-SA8S-SB-4.0-5.0 SL-023-SA7-SB-2.0-3.0 SL-026-SA5DS-SB-4.0-5.0 SL-026-SA5DS-SB-9.0-10.0 SL-040-SA5DS-SB-4.0-5.0 SL-040-SA5DS-SB-9.0-10.0 SL-060-SA7-SB-2.5-3.5 SL-069-SA7-SB-2.5-3.5 SL-148-SA7-SB-0.0-1.0)	ANTIMONY	79	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: DE273_v2

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA7-SB-2.5-3.5	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA8S-SB-4.0-5.0	SODIUM	J	83.0	110	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	11.0	PQL	mg/Kg	
	Zirconium	J	4.78	5.48	PQL	mg/Kg	
SL-023-SA7-SB-2.0-3.0	SODIUM	J	73.6	98.7	PQL	mg/Kg	J (all detects)
	TIN	J	2.51	9.87	PQL	mg/Kg	
	Zirconium	J	3.26	4.93	PQL	mg/Kg	
SL-026-SA5DS-SB-4.0-5.0	TIN	J	2.74	10.8	PQL	mg/Kg	J (all detects)
SL-026-SA5DS-SB-9.0-10.0	TIN	J	2.98	11.0	PQL	mg/Kg	J (all detects)
SL-040-SA5DS-SB-4.0-5.0	TIN	J	2.92	10.8	PQL	mg/Kg	J (all detects)
SL-040-SA5DS-SB-9.0-10.0	TIN	J	2.92	10.5	PQL	mg/Kg	J (all detects)
SL-060-SA7-SB-2.5-3.5	TIN	J	2.62	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.54	5.13	PQL	mg/Kg	
SL-069-SA7-SB-2.5-3.5	SODIUM	J	78.9	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.68	10.2	PQL	mg/Kg	
	Zirconium	J	3.10	5.11	PQL	mg/Kg	
SL-148-SA7-SB-0.0-1.0	BORON	J	4.61	5.15	PQL	mg/Kg	J (all detects)
	SODIUM	J	74.8	103	PQL	mg/Kg	
	TIN	J	2.69	10.3	PQL	mg/Kg	
	Zirconium	J	2.66	5.15	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA8S-SB-4.0-5.0	SELENIUM	J	0.0647	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0377	0.105	PQL	mg/Kg	
SL-023-SA7-SB-2.0-3.0	SELENIUM	J	0.137	0.415	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0253	0.104	PQL	mg/Kg	
SL-026-SA5DS-SB-4.0-5.0	CADMIUM	J	0.0890	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.206	0.435	PQL	mg/Kg	
SL-026-SA5DS-SB-9.0-10.0	ANTIMONY	J	0.0880	0.220	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.108	0.110	PQL	mg/Kg	
	SELENIUM	J	0.344	0.439	PQL	mg/Kg	
	SILVER	J	0.0195	0.110	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: DE273_v2

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5DS-SB-4.0-5.0	ANTIMONY	J	0.0827	0.216	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0595	0.108	PQL	mg/Kg	
	SELENIUM	J	0.112	0.432	PQL	mg/Kg	
	SILVER	J	0.0407	0.108	PQL	mg/Kg	
SL-040-SA5DS-SB-9.0-10.0	SELENIUM	J	0.164	0.430	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0203	0.108	PQL	mg/Kg	
SL-060-SA7-SB-2.5-3.5	SELENIUM	J	0.0657	0.407	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0206	0.102	PQL	mg/Kg	
SL-069-SA7-SB-2.5-3.5	CADMIUM	J	0.0879	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.417	PQL	mg/Kg	
	SILVER	J	0.0376	0.104	PQL	mg/Kg	
SL-148-SA7-SB-0.0-1.0	CADMIUM	J	0.0780	0.100	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.147	0.401	PQL	mg/Kg	
	SILVER	J	0.0344	0.100	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-148-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.27	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DS-SB-9.0-10.0	MERCURY	J	0.0142	0.109	PQL	mg/Kg	J (all detects)
SL-040-SA5DS-SB-9.0-10.0	MERCURY	J	0.0141	0.106	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA7-SB-2.0-3.0	EFH (C12-C14)	J	0.66	1.2	PQL	mg/Kg	J (all detects)
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.3	1.1	PQL	mg/Kg	
SL-060-SA7-SB-2.5-3.5	EFH (C15-C20)	J	0.83	1.3	PQL	mg/Kg	J (all detects)
SL-069-SA7-SB-2.5-3.5	EFH (C15-C20)	J	0.53	1.3	PQL	mg/Kg	J (all detects)
SL-148-SA7-SB-0.0-1.0	EFH (C15-C20)	J	0.71	1.3	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE273

Laboratory: LL

EDD Filename: DE273_v2

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DS-SB-4.0-5.0	AROCLOR 1254	J	0.65	1.8	PQL	ug/Kg	J (all detects)
SL-026-SA5DS-SB-9.0-10.0	AROCLOR 1254	J	1.8	1.9	PQL	ug/Kg	J (all detects)
SL-148-SA7-SB-0.0-1.0	Aroclor 5460	J	1.4	3.5	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA8S-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.5	19	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	13	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.2	19	PQL	ug/Kg	
SL-023-SA7-SB-2.0-3.0	BENZO(B)FLUORANTHENE	J	0.75	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.62	1.7	PQL	ug/Kg	
SL-026-SA5DS-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.1	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.2	19	PQL	ug/Kg	
SL-026-SA5DS-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.0	19	PQL	ug/Kg	
SL-040-SA5DS-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.3	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.7	19	PQL	ug/Kg	
SL-040-SA5DS-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.7	19	PQL	ug/Kg	
SL-069-SA7-SB-2.5-3.5	BENZO(K)FLUORANTHENE	J	0.79	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	18	PQL	ug/Kg	
SL-148-SA7-SB-0.0-1.0	BENZO(K)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.8	19	PQL	ug/Kg	
	CHRYSENE	J	0.38	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.1	19	PQL	ug/Kg	

LDC #: 2697914

VALIDATION COMPLETENESS WORKSHEET

Date: 1-20-12

SDG #: DE273

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: *CR*

2nd Reviewer: *W*

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (from SDG: DE277)
VII.	Duplicate Sample Analysis	N	DUP ↓
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	—	from DE277
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

Soil

1	SL-023-SA7-SB-2.0-3.0	11		21		31	
2	SL-060-SA7-SB-2.5-3.5	12		22		32	
3	SL-069-SA7-SB-2.5-3.5	13		23		33	
4	SL-148-SA7-SB-0.0-1.0	14		24		34	
5	SL-026-SA5DS-SB-4.0-5.0	15		25		35	
6	SL-026-SA5DS-SB-9.0-10.0	16		26		36	
7	SL-040-SA5DS-SB-4.0-5.0	17		27		37	
8	SL-040-SA5DS-SB-9.0-10.0	18		28		38	
9	SL-016-SA8S-SB-4.0-5.0	19		29		39	
10		20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Reason: B
 Sample Concentration units, unless otherwise noted: mg/Kg Soil preparation factor applied: 100x x MS (2x dil), Hg: 167x
 Associated Samples: All

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	2	6	8						
Hg			0.049	0.08		0.014	0.014						
Tl			0.15	0.15	0.14								

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE274

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3050B	6010B	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3050B	6020	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3060A	7199	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3550B	8082	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3550B	8270C	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3550B	8270C SIM	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	METHOD	300.0	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	METHOD	314.0	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	METHOD	7471A	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3050B	6010B	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3060A	7199	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3550B	8082	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3550B	8270C	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3550B	8270C SIM	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	METHOD	300.0	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	METHOD	314.0	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	METHOD	7471A	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D220902	DUP	METHOD	7471A	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D222204A	DUP	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D222204B	DUP	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D222204C	DUP	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D222204D	DUP	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D271053A	DUP	METHOD	300.0	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D271349A	DUP	3060A	7199	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D271811A	DUP	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M220907	MSD	METHOD	7471A	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M222211A	MSD	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M222211B	MSD	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M222211C	MSD	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M222211D	MSD	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M261022	MSD	3550B	8270C	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M261050	MSD	3550B	8270C SIM	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R220903	MS	METHOD	7471A	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R222207A	MS	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R222207B	MS	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R222207C	MS	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R222207D	MS	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R260957	MS	3550B	8270C	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R261015	MS	3550B	8270C SIM	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R271108A	MS	METHOD	300.0	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R271316A	MS	3060A	7199	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R271832A	MS	METHOD	314.0	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3050B	6010B	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3060A	7199	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3550B	8082	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3550B	8270C	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3550B	8270C SIM	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	METHOD	300.0	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	METHOD	314.0	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3050B	6010B	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3050B	6020	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3060A	7199	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3550B	8082	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3550B	8270C	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3550B	8270C SIM	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	METHOD	300.0	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	METHOD	314.0	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	METHOD	6850	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	METHOD	7471A	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0MSD	P451567M241950A	MSD	METHOD	6850	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0MS	P451567R241924A	MS	METHOD	6850	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	3005A	6010B	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	3020A	6020	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	3510C	8082	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	3510C	8270C	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	3510C	8270C SIM	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	Gen Prep	300.0	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	Gen Prep	314.0	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	Gen Prep	7199	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	METHOD	7470A	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3005A	6010B	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3020A	6020	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8015B	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8015M	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8082	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8270C	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8270C SIM	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3520C	1625C	III
26-Oct-2011	FB-SA7-102611	6451572	FB	5030B	8015M	III
26-Oct-2011	FB-SA7-102611	6451572	FB	5030B	8260B	III
26-Oct-2011	FB-SA7-102611	6451572	FB	5030B	8260B SIM	III
26-Oct-2011	FB-SA7-102611	6451572	FB	8330	8330A	III
26-Oct-2011	FB-SA7-102611	6451572	FB	Gen Prep	300.0	III
26-Oct-2011	FB-SA7-102611	6451572	FB	Gen Prep	314.0	III
26-Oct-2011	FB-SA7-102611	6451572	FB	Gen Prep	7199	III
26-Oct-2011	FB-SA7-102611	6451572	FB	Gen Prep	8015B	III
26-Oct-2011	FB-SA7-102611	6451572	FB	Gen Prep	8015M	III
26-Oct-2011	FB-SA7-102611	6451572	FB	METHOD	7470A	III
26-Oct-2011	FB-SA7-102611	6451572	FB	METHOD	8151A	III
26-Oct-2011	FB-SA7-102611	6451572	FB	METHOD	8315A	III
26-Oct-2011	FB-SA7-102611	6451572	FB	METHOD	9012B	III
26-Oct-2011	TB-102611	6451570	TB	5030B	8015M	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3050B	6010B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3050B	6020	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3060A	7199	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3550B	8015B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3550B	8015M	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3550B	8082	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3550B	8270C	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	5035	8015M	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	300.0	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	314.0	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	7471A	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	8015B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	8015M	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	9012B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3050B	6010B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3050B	6020	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3060A	7199	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3550B	8015B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3550B	8015M	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3550B	8082	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3550B	8270C	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3550B	8270C SIM	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	300.0	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	314.0	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	7471A	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	8015B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	8015M	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	9012B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0DUP	P451568D271946A	DUP	METHOD	9012B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0MSD	P451568M320713A	MSD	3550B	8015M	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0MSD	P451568M321820A	MSD	3550B	8015B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0MS	P451568R271948A	MS	METHOD	9012B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0MS	P451568R320649A	MS	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Oct-2011	SL-086-SA7-SB-3.0-4.0MS	P451568R321758A	MS	3550B	8015B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5MSD	P451569M320051A	MSD	METHOD	8015B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5MS	P451569R320034A	MS	METHOD	8015B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 300.0 **Matrix: SO**

Sample ID: SL-033-SA7-SB-4.0-5.0 Collected: 10/24/2011 1:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-033-SA7-SB-9.0-10.0 Collected: 10/24/2011 2:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA7-SB-4.0-5.0 Collected: 10/24/2011 10:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-082-SA7-SB-4.0-5.0 Collected: 10/25/2011 9:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-086-SA7-SB-3.0-4.0 Collected: 10/26/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA7-SB-2.5-3.5 Collected: 10/26/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Method Category: METALS
Method: 6010B **Matrix: AQ**

Sample ID: EB-SA7-SB-102611 Collected: 10/26/2011 7:30:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0056	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
IRON	0.0424	J	0.0141	MDL	0.200	PQL	mg/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

1/26/2012 9:50:07 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA7-SB-102611	Collected: 10/26/2011 7:30:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	0.00052	J	0.00044	MDL	0.0050	PQL	mg/L	J	Z

Sample ID: FB-SA7-102611	Collected: 10/26/2011 9:45:00	Analysis Type: REA	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	0.0018	J	0.00022	MDL	0.0050	PQL	mg/L	J	Z
TITANIUM	0.00060	J	0.00046	MDL	0.0100	PQL	mg/L	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-033-SA7-SB-4.0-5.0	Collected: 10/24/2011 1:40:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.29	J	0.375	MDL	5.21	PQL	mg/Kg	J	Z
CALCIUM	2720		2.60	MDL	20.8	PQL	mg/Kg	J	E, Z
PHOSPHORUS	490		0.365	MDL	10.4	PQL	mg/Kg	J	Q
SODIUM	82.3	J	6.20	MDL	104	PQL	mg/Kg	J	Z
TIN	2.72	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.24	J	0.479	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA7-SB-9.0-10.0	Collected: 10/24/2011 2:05:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.97	J	0.379	MDL	5.27	PQL	mg/Kg	J	Z
CALCIUM	2630		2.63	MDL	21.1	PQL	mg/Kg	J	E
PHOSPHORUS	370		0.369	MDL	10.5	PQL	mg/Kg	J	Q
SODIUM	87.9	J	6.27	MDL	105	PQL	mg/Kg	J	Z
TIN	2.71	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.92	J	0.484	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA7-SB-4.0-5.0	Collected: 10/24/2011 10:55:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.05	J	0.386	MDL	5.36	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-038-SA7-SB-4.0-5.0 Collected: 10/24/2011 10:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2750		2.68	MDL	21.4	PQL	mg/Kg	J	E
PHOSPHORUS	312		0.375	MDL	10.7	PQL	mg/Kg	J	Q
SODIUM	82.3	J	6.38	MDL	107	PQL	mg/Kg	J	Z
TIN	2.83	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.99	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA7-SB-4.0-5.0 Collected: 10/25/2011 9:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.74	J	0.395	MDL	5.48	PQL	mg/Kg	J	Z
CALCIUM	1390		2.74	MDL	21.9	PQL	mg/Kg	J	E
PHOSPHORUS	84.5		0.384	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.74	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.03	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA7-SB-3.0-4.0 Collected: 10/26/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.45	J	0.371	MDL	5.15	PQL	mg/Kg	U	F
CALCIUM	5390		2.58	MDL	20.6	PQL	mg/Kg	J	E
PHOSPHORUS	622		0.361	MDL	10.3	PQL	mg/Kg	J	Q
SODIUM	94.2	J	6.13	MDL	103	PQL	mg/Kg	U	F
TIN	2.97	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.13	J	0.474	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 Collected: 10/26/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.23	J	0.365	MDL	5.06	PQL	mg/Kg	U	F, F
CALCIUM	2520		2.53	MDL	20.3	PQL	mg/Kg	UJ	E, F, Z
PHOSPHORUS	353		0.354	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	82.1	J	6.03	MDL	101	PQL	mg/Kg	U	F
TIN	2.77	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.01	J	0.466	MDL	5.06	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-033-SA7-SB-4.0-5.0 Collected: 10/24/2011 1:40:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.184	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z, Q

Sample ID: SL-033-SA7-SB-4.0-5.0 Collected: 10/24/2011 1:40:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.616		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA7-SB-4.0-5.0 Collected: 10/24/2011 1:40:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.168	J	0.0771	MDL	0.208	PQL	mg/Kg	J	Z, Q
ARSENIC	6.15		0.0833	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.694		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.207		0.0458	MDL	0.104	PQL	mg/Kg	J	Q
COBALT	8.51		0.0208	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	11.9		0.0833	MDL	0.417	PQL	mg/Kg	J	Q
LEAD	5.66		0.0106	MDL	0.208	PQL	mg/Kg	J	Q
NICKEL	16.3		0.104	MDL	0.417	PQL	mg/Kg	J	Q
SILVER	0.0410	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA7-SB-9.0-10.0 Collected: 10/24/2011 2:05:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.187	J	0.0611	MDL	0.421	PQL	mg/Kg	J	Z, Q

Sample ID: SL-033-SA7-SB-9.0-10.0 Collected: 10/24/2011 2:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.599		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA7-SB-9.0-10.0 Collected: 10/24/2011 2:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0779	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	5.39		0.0843	MDL	0.421	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-033-SA7-SB-9.0-10.0 Collected: 10/24/2011 2:05:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.684		0.0169	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.115		0.0463	MDL	0.105	PQL	mg/Kg	J	Q
COBALT	7.57		0.0211	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	9.75		0.0843	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	6.84		0.0107	MDL	0.211	PQL	mg/Kg	J	Q
NICKEL	14.1		0.105	MDL	0.421	PQL	mg/Kg	J	Q
SILVER	0.0285	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA7-SB-4.0-5.0 Collected: 10/24/2011 10:55:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.158	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z, Q

Sample ID: SL-038-SA7-SB-4.0-5.0 Collected: 10/24/2011 10:55:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.673		0.0536	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA7-SB-4.0-5.0 Collected: 10/24/2011 10:55:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.139	J	0.0793	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	6.97		0.0857	MDL	0.429	PQL	mg/Kg	J	Q
BERYLLIUM	0.816		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CADMIUM	0.130		0.0471	MDL	0.107	PQL	mg/Kg	J	Q
COBALT	7.88		0.0214	MDL	0.107	PQL	mg/Kg	J	Q
COPPER	9.93		0.0857	MDL	0.429	PQL	mg/Kg	J	Q
LEAD	6.78		0.0109	MDL	0.214	PQL	mg/Kg	J	Q
NICKEL	15.0		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0334	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA7-SB-4.0-5.0 Collected: 10/25/2011 9:00:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0636	MDL	0.439	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 **Matrix:** SO

Sample ID: SL-082-SA7-SB-4.0-5.0 Collected: 10/25/2011 9:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.500		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-082-SA7-SB-4.0-5.0 Collected: 10/25/2011 9:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0812	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	6.82		0.0877	MDL	0.439	PQL	mg/Kg	J	Q
BERYLLIUM	0.849		0.0175	MDL	0.110	PQL	mg/Kg	J	Q
COBALT	5.66		0.0219	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	5.38		0.0877	MDL	0.439	PQL	mg/Kg	J	Q
LEAD	5.96		0.0112	MDL	0.219	PQL	mg/Kg	J	Q
NICKEL	8.01		0.110	MDL	0.439	PQL	mg/Kg	J	Q
SILVER	0.0597	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA7-SB-3.0-4.0 Collected: 10/26/2011 3:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.660		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-086-SA7-SB-3.0-4.0 Collected: 10/26/2011 3:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.177	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	6.30		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.498		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.0915	J	0.0453	MDL	0.103	PQL	mg/Kg	J	Z, Q
COBALT	7.21		0.0206	MDL	0.103	PQL	mg/Kg	J	Q
COPPER	13.1		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	6.79		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
NICKEL	18.8		0.103	MDL	0.412	PQL	mg/Kg	J	Q
SILVER	0.0411	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6020 Matrix: SO

Sample ID: SL-157-SA7-SB-2.5-3.5 Collected: 10/26/2011 3:00:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.160		0.0511	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA7-SB-2.5-3.5 Collected: 10/26/2011 3:00:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0757	U	0.0757	MDL	0.205	PQL	mg/Kg	UJ	Q
ARSENIC	3.68		0.0818	MDL	0.409	PQL	mg/Kg	J	Q
BERYLLIUM	0.434		0.0164	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.0691	J	0.0450	MDL	0.102	PQL	mg/Kg	J	Z, Q
COBALT	4.18		0.0205	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	4.54		0.0818	MDL	0.409	PQL	mg/Kg	J	Q
LEAD	5.53		0.0104	MDL	0.205	PQL	mg/Kg	J	Q
NICKEL	6.64		0.102	MDL	0.409	PQL	mg/Kg	J	Q

Method Category: METALS
Method: 7199 Matrix: AQ

Sample ID: EB-SA7-SB-102611 Collected: 10/26/2011 7:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Sample ID: FB-SA7-102611 Collected: 10/26/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Method Category: METALS
Method: 7199 Matrix: SO

Sample ID: SL-033-SA7-SB-4.0-5.0 Collected: 10/24/2011 1:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7199 Matrix: SO

Sample ID: SL-038-SA7-SB-4.0-5.0 Collected: 10/24/2011 10:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA7-SB-4.0-5.0 Collected: 10/25/2011 9:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA7-SB-3.0-4.0 Collected: 10/26/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 Collected: 10/26/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A Matrix: SO

Sample ID: SL-033-SA7-SB-9.0-10.0 Collected: 10/24/2011 2:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0131	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA7-SB-4.0-5.0 Collected: 10/24/2011 10:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0099	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA7-SB-4.0-5.0 Collected: 10/25/2011 9:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0136	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7471A Matrix: SO

Sample ID: SL-086-SA7-SB-3.0-4.0 Collected: 10/26/2011 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0083	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 8015M Matrix: AQ

Sample ID: FB-SA7-102611 Collected: 10/26/2011 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	E
Propylene glycol	20	U	20	MDL	200	PQL	mg/L	UJ	E

Method Category: SVOA
Method: 8015M Matrix: SO

Sample ID: SL-086-SA7-SB-3.0-4.0 Collected: 10/26/2011 3:00:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.49	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C21-C30)	2.6		0.42	MDL	1.2	PQL	mg/Kg	J	Q
EFH (C30-C40)	7.9		0.42	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA7-SB-2.5-3.5 Collected: 10/26/2011 3:00:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.60	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 8082 Matrix: SO

Sample ID: SL-033-SA7-SB-9.0-10.0 Collected: 10/24/2011 2:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.7	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8082 **Matrix:** SO

Sample ID: SL-038-SA7-SB-4.0-5.0 Collected: 10/24/2011 10:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.8	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA7-SB-3.0-4.0 Collected: 10/26/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.57	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 Collected: 10/26/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.35	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.98	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA
Method: 8270C **Matrix:** SO

Sample ID: SL-033-SA7-SB-4.0-5.0 Collected: 10/24/2011 1:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	R	Q

Sample ID: SL-038-SA7-SB-4.0-5.0 Collected: 10/24/2011 10:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	25	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 Collected: 10/26/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	59	J	17	MDL	340	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** AQ

Sample ID: EB-SA7-SB-102611 Collected: 10/26/2011 7:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.17	J	0.050	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.075	J	0.050	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.28	J	0.050	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.037	J	0.030	MDL	0.050	PQL	ug/L	J	Z

Sample ID: FB-SA7-102611 Collected: 10/26/2011 9:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.18	J	0.049	MDL	0.98	PQL	ug/L	U	B
Di-n-octylphthalate	0.083	J	0.049	MDL	0.98	PQL	ug/L	J	Z

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-033-SA7-SB-4.0-5.0 Collected: 10/24/2011 1:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	0.92	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA7-SB-3.0-4.0 Collected: 10/26/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	54		6.2	MDL	19	PQL	ug/Kg	U	B
FLUORENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 Collected: 10/26/2011 3:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.63	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.93	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA
Method: 8015B **Matrix:** AQ

Sample ID: FB-SA7-102611

Collected: 10/26/2011 9:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	200	U	200	MDL	1000	PQL	ug/L	UJ	H
Isopropanol	200	U	200	MDL	1000	PQL	ug/L	UJ	H
METHANOL	200	U	200	MDL	1000	PQL	ug/L	UJ	H

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE274

Laboratory: LL

EDD Filename: DE274_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
B	Method Blank Contamination
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
H	Sampling to Analysis Estimation
L	Laboratory Control Precision
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Z	Reporting Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

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